



HITACHI

● SERVICE MANUAL

NTSC

G7LXU2 Chassis

YK

No.0288E

CT7970B/K

R/C:CLU-350

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CAUTION: Before servicing this chassis, it is important that the service technician read the "Safety Precaution" and "Product Safety Notices" in this Service Manual.

TECHNICAL SPECIFICATIONS

ANTENNA INPUT IMPEDANCE	75Ω (300Ω)	POWER INPUT	AC120V, 60Hz
CHANNEL COVERAGE		POWER RATING	150W
VHF BAND	2 ~ 13	CONVERGENCE	Self convergence
UHF BAND	14 ~ 69	FOCUS	Electrostatic
CATV MID BAND	A-5 ~ A-1	PICTURE TUBE	MVA68AEC00X
	A ~ I	SPEAKER	2 Woofers (60x120)
SUPER BAND	J ~ W	SOUND OUTPUT	3W x 2
HYPER BAND	W + 1 ~ W + 28	DIMENSIONS	
ULTRA BAND	W + 29 ~ W + 84	W	664 mm
RECEIVING CHANNEL	181 ch	H	595 mm
CHANNEL INDICATOR	DIGITAL / ON SCREEN	D	518 mm
INTERMEDIATE FREQUENCY		WEIGHT	41 kg
Picture I-F Carrier	45.75 MHz		
Sound I-F Carrier	41.25 MHz		
Sound I-F	4.50 MHz		



SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

SOLID STATE COLOUR TELEVISION

February 1989

YOKOHAMA WORKS

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety related notes located on or inside the cabinet and on the chassis or picture tube.

WARNING: Since the chassis of this receiver is connected to one side of the AC power supply during operation, whenever the receiver is plugged in, service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

The following precautions should be observed:

1. Do not install, remove, or handle the picture tube in any manner unless shatterproof goggles are worn. People not so equipped should be kept away while picture tubes are handled. Keep picture tube away from the body while handling.
2. When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.
3. When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, non-metallic knobs, adjustment and compartment cover-shields, isolation resistors-capacitors, etc.
4. When service is required, observe the original lead dress. Extra care should be taken to assure correct lead dress in the high voltage circuitry area.
5. Always use the manufacturer's replacement components. Especially critical components as indicated on the circuit diagram should not be replaced by other manufacturer's. Furthermore where a short circuit has occurred, replace those components that indicate evidence of overheating.
6. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

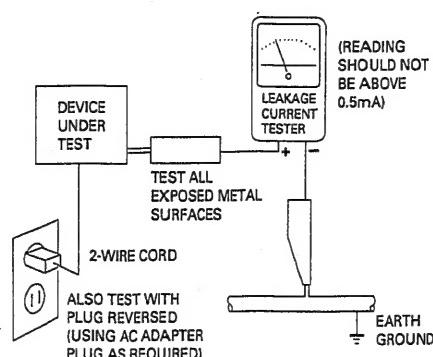
Therefore, the following checks should be performed for the continued protection of the customer and service technician.

Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across the two plug prongs. Turn the AC power switch on. Using an insulation tester (DC500V), connect one lead to the jumpered AC plug and touch the other lead to each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis. Exposed metal parts having a return path to the chassis should have a minimum resistor reading of 0.3Ω and a maximum resistor reading of 5Ω . Any resistance value below or above this range indicates an abnormality which requires corrective action. Exposed metal parts not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

Plug the AC line cord directly into a AC 120V 60Hz outlet (do not use an isolation transformer for this check). Turn the AC power switch on. Using a "leakage Current Tester (Simpson Model 229 or equivalent)", measure for current from all exposed metal parts of the cabinet (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis, to a known earth ground (water pipe, conduit, etc.). Any current measured must not exceed 0.5mA.

**AC Leakage Test**

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

High Voltage

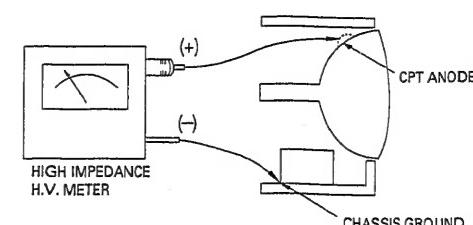
This receiver is provided with a hold down circuit for clearly indicating that voltage has increased in excess of a predetermined value. Comply with all notes described in this Service Manual regarding this hold down circuit when servicing, so that this hold down circuit is operated correctly.

Serviceman warning

With minimum Black Level and Picture, the operating high voltage in this receiver is lower than 32.0kV. In case any component having influence on the high voltage is replaced, confirm that high voltage with minimum Black Level and Picture is lower than 32.0kV.

To measure H.V. use a high impedance H.V. meter. Connect (-) to chassis earth and (+) to the CPT anode button (See the following connection diagram).

NOTE: Turn the power switch off without fail before the connection to the Anode button is made.

**X-radiation**

TUBE: The primary source of X radiation in this receiver is the picture tube. The tube utilized in this chassis is specially constructed to limit X radiation emission.

For continued X radiation protection, the replacement tube must be the same type as the original, HITACHI approved type.

When troubleshooting and making test measurements in a receiver with an excessive high voltage problem, avoid coming unnecessarily close to the picture tube and the high voltage component.

Do not operate the chassis longer than is necessary to locate the cause of the excessive voltage.

PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receiver have special safety related characteristics. These are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual. Electrical components having such features are identified with a Δ mark in the schematics and parts list in this Service Manual.

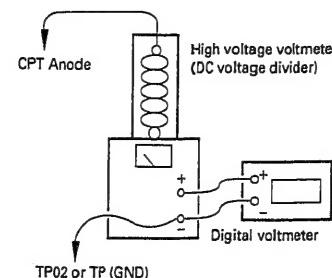
The use of a substitute replacement component which does not have the same safety characteristics as the HITACHI recommended replacement one, shown in the parts list in this Service Manual, may create shock fire, X-radiation, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of, HITACHI Service Manual may be obtained at a nominal charge from HITACHI SALES CORPORATION.

TECHNICAL CAUTIONS

High voltage limiter circuit operation check

1. Connect the high voltage voltmeter between the CPT anode terminal (anode cap) and ground (TP02 or TP (GND)) as shown below.
2. Set the AC input voltage to 132 ± 3 V.
3. Receive the broadcast signal and set the picture level to maximum and the black level to the center. Adjust the screen VR and sub brightness VR so that beam current is 1.50 ± 0.1 mA. (The voltage at ABL terminal of FBT (between both ends of C770) should be 9V or less at this time.)
4. Check that the constant high voltage is 27.2kV at this time.
5. Set the AC input voltage to 100 ± 5 V and then short-circuit both ends of D603 and R910A.
6. Leave the settings of the picture, black level and screen VRs as in item (3) and gradually increase the AC input voltage. Check that the picture disappears when the high voltage is less than 33.0kV.
7. Turn the switch of the set off immediately after checking that the picture disappears.



Use the voltmeter which can indicate up to the first decimal point, with an input impedance of $10 \text{ M}\Omega$ or more.

Fig. 1

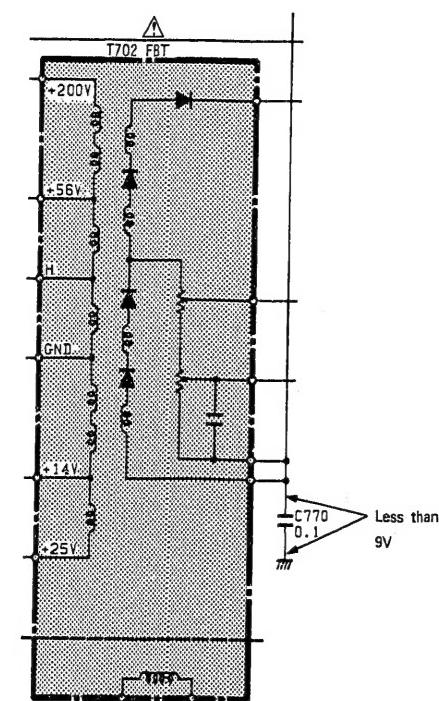
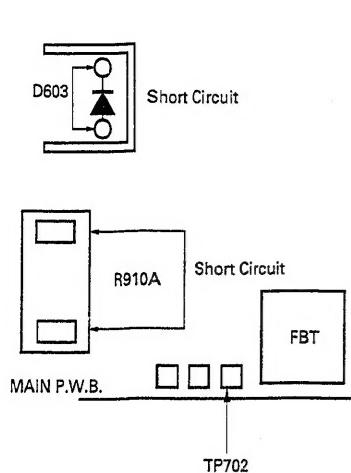
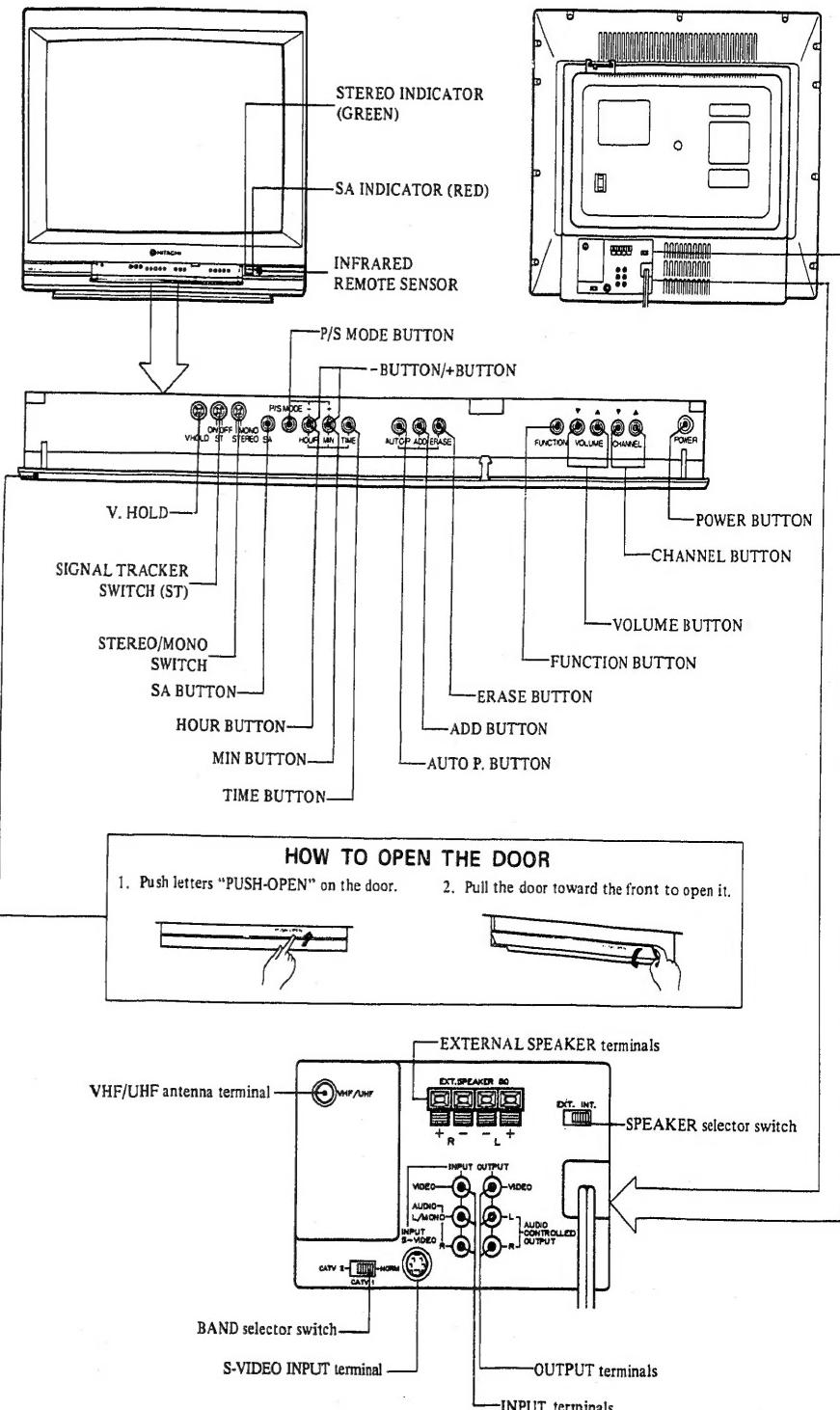


Fig. 2

LOCATION OF CONTROLS



HOW TO SELECT CHANNELS

STEP 1

TURNING THE SET ON - **(POWER BUTTON)**

Push the POWER BUTTON to turn the set ON. (To turn the set OFF, push the POWER BUTTON again.)

STEP 2

VOLUME CONTROL - **(VOLUME BUTTON)**

Push the right side (\blacktriangle : UP) of the VOLUME BUTTON to make the sound louder, and the left side (\blacktriangledown : DOWN) of the VOLUME BUTTON to make the sound softer. Variation of the volume is displayed at the upper part of the screen with numerals 0 ~ 63 and by the color bar. (Fig. 1)

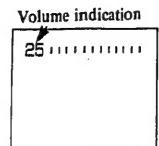


Fig. 1

Volume indication

Channel number indication

Large letters
(4 seconds)

11

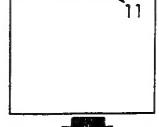


Fig. 2

Small letters
(4 seconds)

STEP 3

FUNCTION SELECTION - **(FUNCTION BUTTON)**

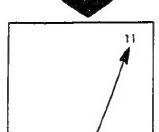
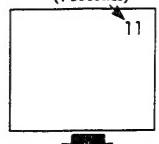
Every time you press the FUNCTION BUTTON, the set alternates between the TV mode and FUNCTION mode. To watch the TV, set to the TV mode. At this time, the channel number is displayed at the upper right of the screen. To enjoy a VCR, set to the FUNCTION mode.

STEP 4

CHANNEL SELECTION - **(CHANNEL BUTTON)**

Channel selection may be performed by pressing either the CHANNEL BUTTON UP (\blacktriangle) or DOWN (\blacktriangledown). When pressing the right side (\blacktriangle : UP) of the CHANNEL BUTTON, the next higher channel is selected. And when pressing the left side (\blacktriangledown : DOWN) of the CHANNEL BUTTON, the next lower channel is selected. The No. of the channel to which the TV is tuned is displayed at the upper right side of the screen.

The channel No. selected is displayed for approx. 8 seconds after changing channels and disappears automatically. (The channel No. is indicated for 4 sec. in large letters, then indicated for 4 sec. in small letters, and then disappears.) (When you turn the set ON, the channel No. is displayed on the screen for approx. 15 seconds.)



CABLE ANTENNA (CATV) OPERATION

Your TV can receive Cable Antenna (CATV) channels. (See the table "RECEPTION BAND".)
To receive CATV channels, please operate as follows.

STEP 1

CATV ANTENNA CONNECTION

Connect your CATV cable to the antenna terminal board.

RECEPTION BAND	
NORM	CATV1 or CATV2
VHF 2 ~ 13 ch	VHF 2 ~ 13 ch Mid band A ~ I, A-5 ~ A-1 Super band J ~ W
UHF 14 ~ 69 ch	Hyper band W+1 ~ W+28 Ultra band W+29 ~ W+84

Fig. 1

STEP 2

BAND SELECTION - **(BAND SELECTOR SWITCH)**

The BAND SELECTOR SWITCH is installed at the back of the set. Your TV can receive 12 VHF channels, 56 UHF channels and 125 CATV channels. Choose the required reception band by sliding the BAND SELECTOR SWITCH shown as in Fig. 1.

■ When shipped from the factory, this switch is set to the "NORM" position.

Set the BAND SELECTOR SWITCH on the back of the set to CATV 1 for normal CATV operation. (Fig. 2)

*If the special channel frequencies that are known as the HRC. (Harmonically Related Carrier) system are used with your cable system, set the BAND SELECTOR SWITCH to CATV 2.

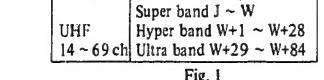


Fig. 1

*CATV reception
in special areasStandard CATV
receptionVHF/UHF
reception

CATV 2

CATV 1

NORM

STEP 3

CHANNEL SELECTION - **(CHANNEL BUTTON)**

CATV channel selection can be done with the CHANNEL BUTTON UP (\blacktriangle) or DOWN (\blacktriangledown) as with VHF/UHF channels. When receiving CATV 2 ~ 13 channels, 2 ~ 13 is indicated on the screen. When receiving Mid band channels, A ~ I, 14 ~ 22 is indicated, and when receiving Super Band channels J ~ W, 23 ~ 36 is indicated. When receiving Hyper band channels W+1 ~ W+28, 37 ~ 64 is indicated, when receiving Mid band A-5 ~ A-1, 95 ~ 99 is indicated, and when receiving Ultra band channels W+29 ~ W+58, W+59 ~ W+84, 65 ~ 94 and 100 ~ 125 is indicated.

Note: If the reception of certain CATV channels is poor or not possible in the CATV 1 position, set the BAND SELECTOR SWITCH to CATV 2.

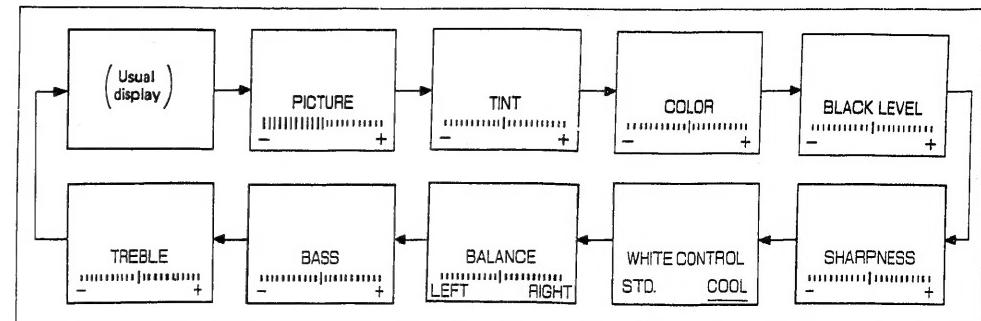
TO OBTAIN THE BEST PICTURE AND SOUND

To control P. MODE (PICTURE, TINT, COLOR, BLACK LEVEL, SHARPNESS, WHITE CONTROL) and S. MODE (BALANCE, BASS, TREBLE), follow the instructions below.
They are set to normal position when shipped from the factory.

P/S MODE BUTTON

Choose the required display, as nine kinds of display will be shown in the following order every time you press the P/S MODE BUTTON.

On-screen Display Order of P/S MODE



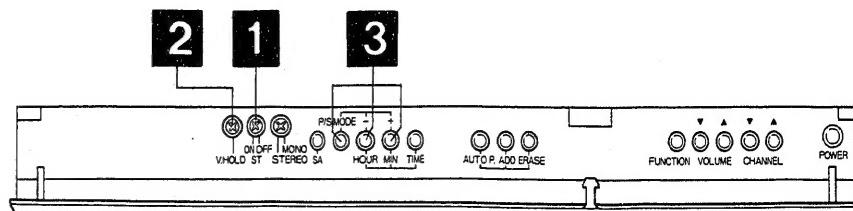
+ BUTTON/- BUTTON

Use the + and - BUTTONS for control.

When you press the + BUTTON, the cursor moves to the right, and when you press the - BUTTON, the cursor moves to the left, as the state of control is changed (as for PICTURE, the number of color bars is increased or decreased. For WHITE CONTROL, underline moves).

For best results, refer to the following section on OPERATION.

OPERATION



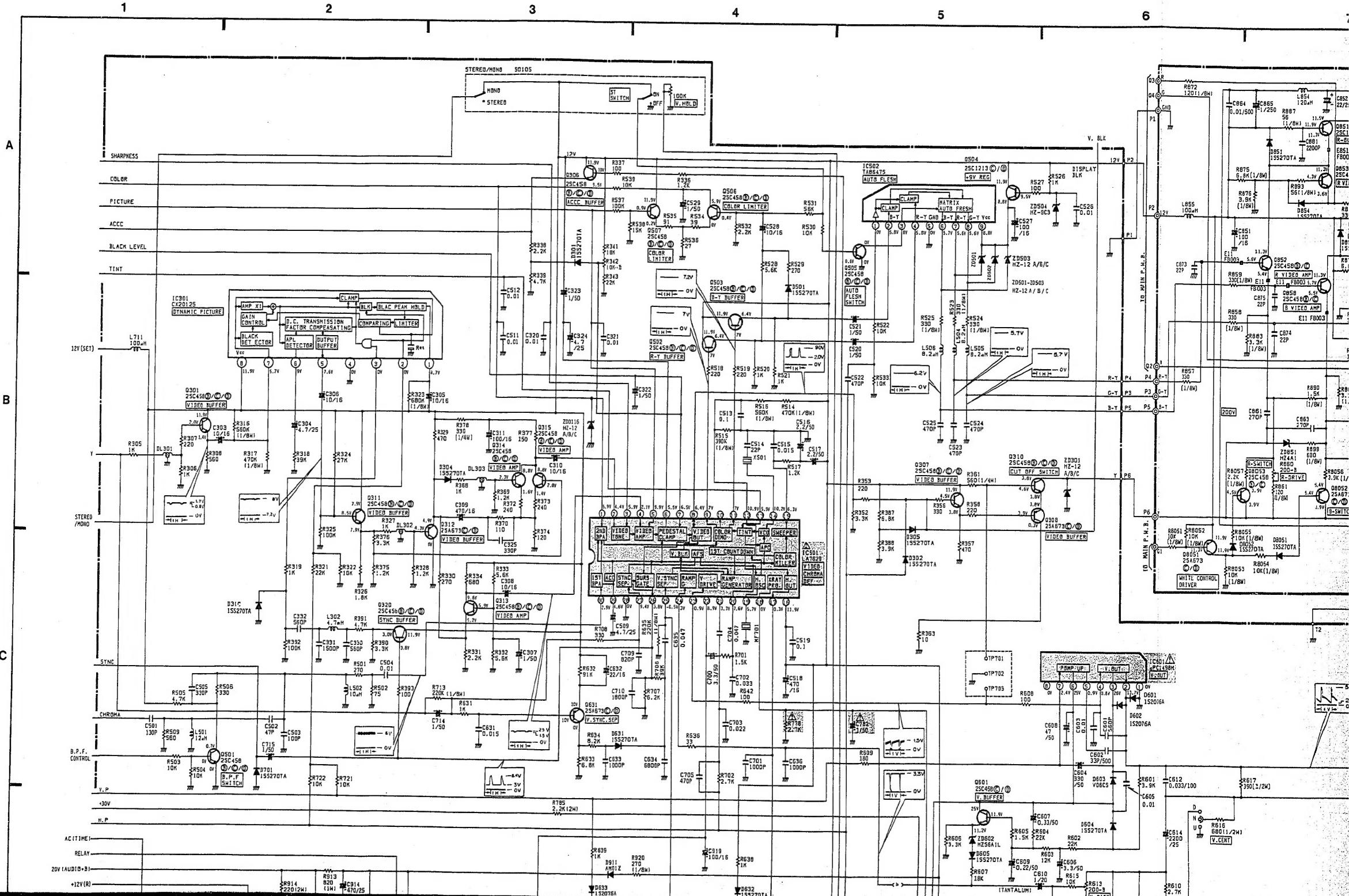
1	SIGNAL TRACKER (ST)	ST is to automatically control variation of color tone between channels. To engage ST, turn the ST switch "OFF", then set the TINT control and COLOR control to the best position, and then turn the ST switch "ON". This is the best way to obtain the best picture. But you can adjust the TINT and the COLOR to your preference even when ST is left "ON".
2	VERTICAL HOLD (V. HOLD)	If the picture moves up or down ("rolls"), adjust the Vertical Hold control until the picture stops rolling.

3	P. MODE	PICTURE
		The PICTURE control is used to adjust contrast, the black level and the color all at once. When the + button is pressed (the indicator moves to the right), the black level is increased, contrast becomes greater and the color becomes deeper.
		TINT
		When the - button is pressed (the cursor moves to the left), flesh tones will be tinted purple, and when the + button is pressed (the cursor moves to the right), they will be green. With the TINT control set at the point where flesh tones appear most real and natural, all other colors will appear normal.
		COLOR
		The COLOR control sets the intensity of colors. Set this control to where the colors appear normal in intensity and brilliance.
		BLACK LEVEL
		Set this control until the portions of the picture you know to be black appear black.
		SHARPNESS
		When the - button is pressed (the cursor moves to the left) to get a softer picture and when the + button is pressed (the cursor moves to the right) to get a sharper picture.
		WHITE CONTROL
		You can adjust the white balance (hue) of the picture to your own color preference. When shipped from the factory, this is set to "COOL".
	S. MODE	BALANCE
		Permits adjustment of the balance of the sound from the left and right speakers.
		BASS
		Press the + Button (the cursor moves to the right) to get low frequency sound and press the - Button to cut low frequency sound.
		TREBLE
		Press the + Button (the cursor moves to the right) to get high frequency sound and press the - Button to cut high frequency sound.

Notes: 1. Use the VR driver in the accessory bag to adjust the ST, STEREO/MONO and V. HOLD.
 2. The P/S mode display disappears automatically after 4 seconds and press again to return to the previous P/S mode display.

PRODUCT SAFETY NOTE: Components marked with a Δ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

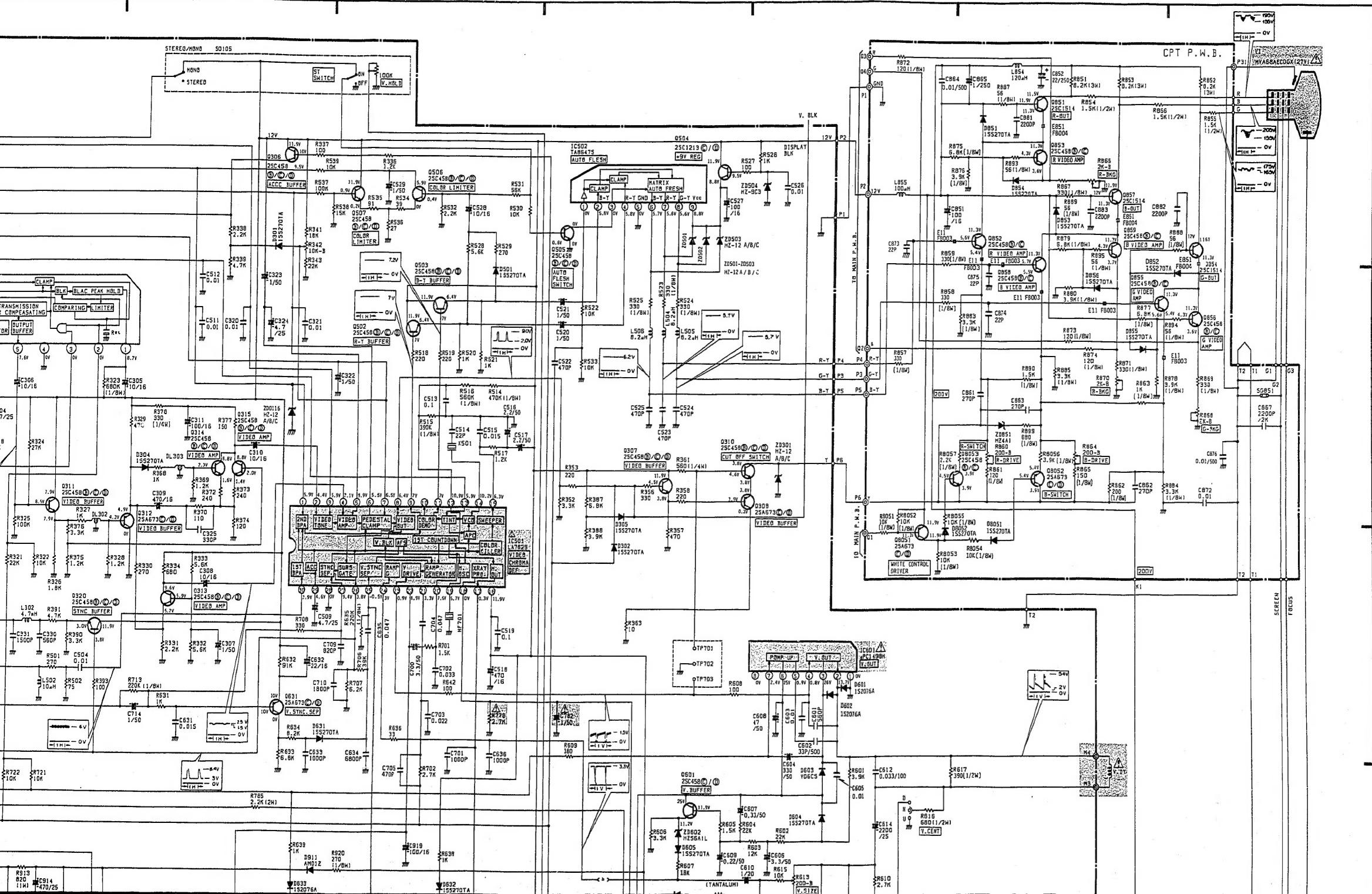
BASIC CIRCUIT DIAGRAM

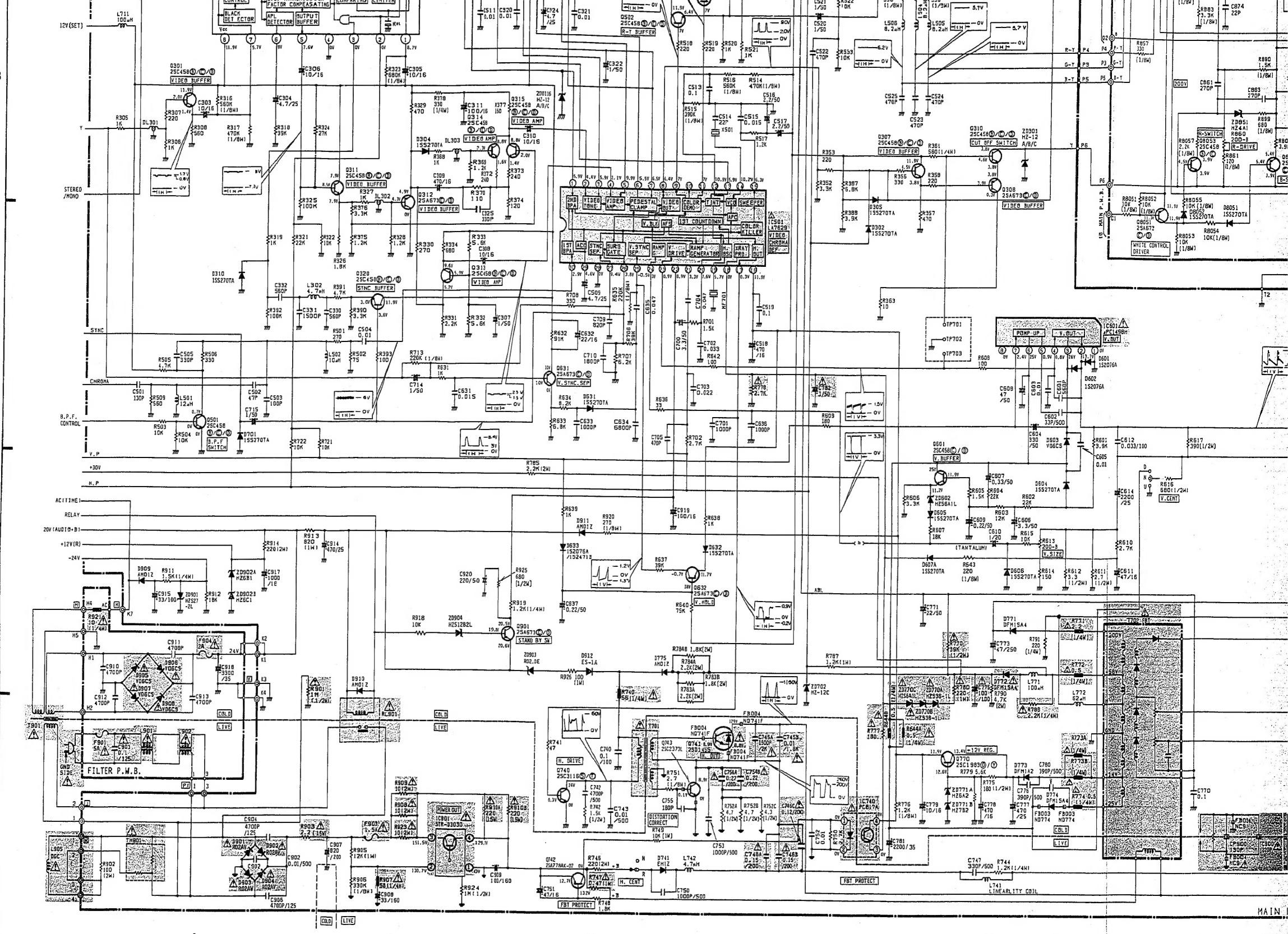


have special characteristics important to
PRODUCT SAFETY NOTICE of this Service

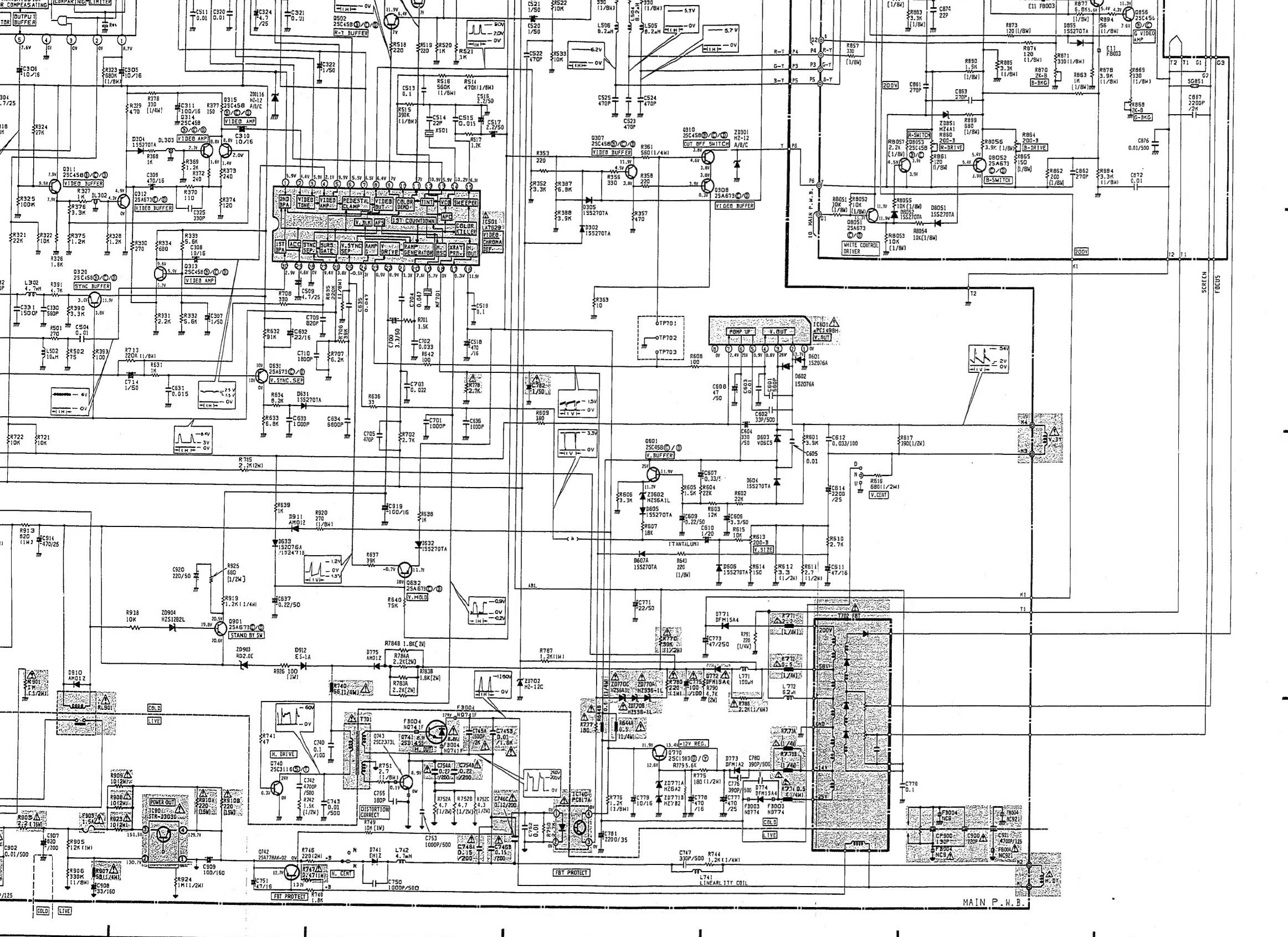
BASIC CIRCUIT DIAGRAM

2 3 4 5 6 7 8

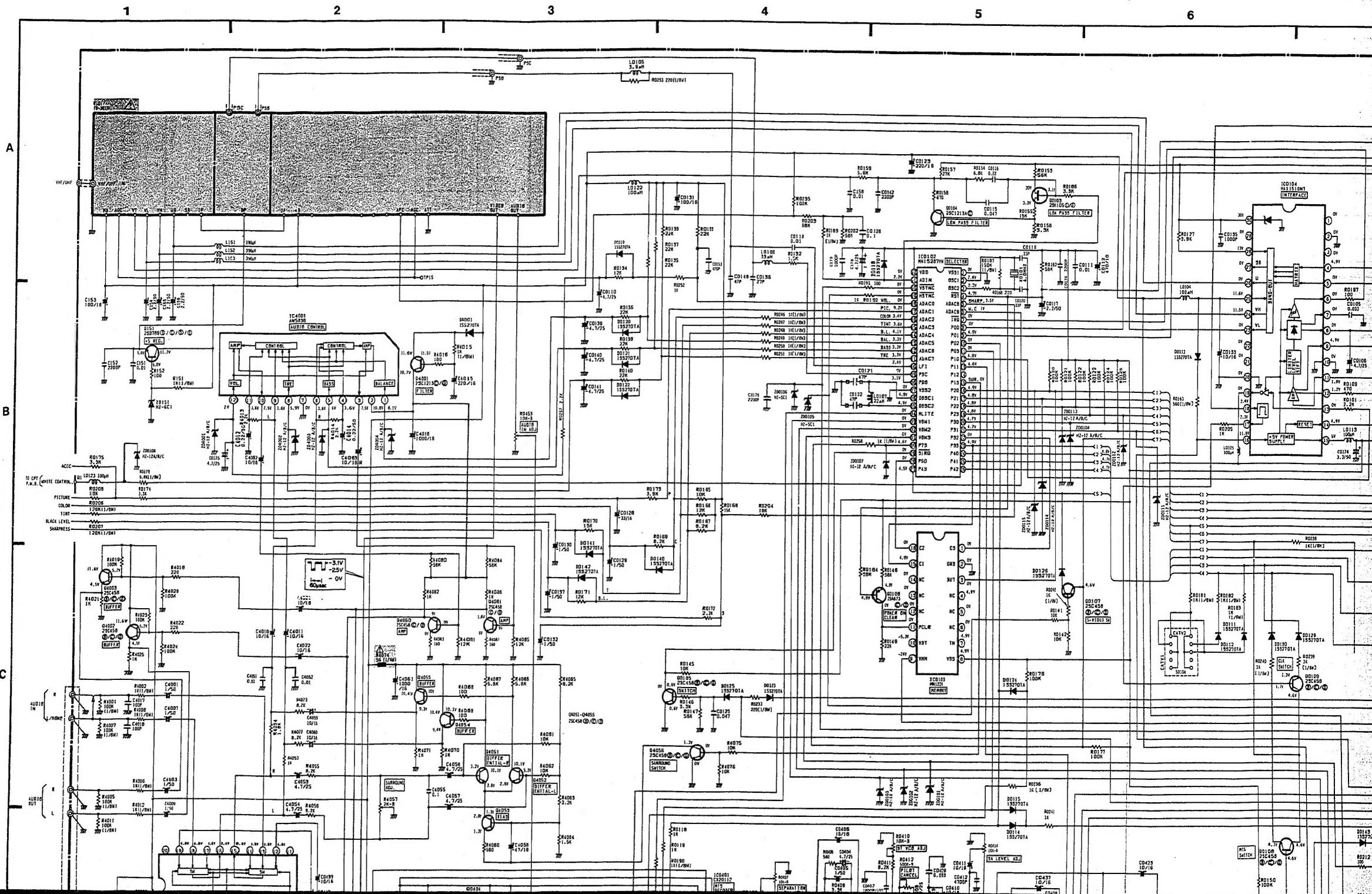




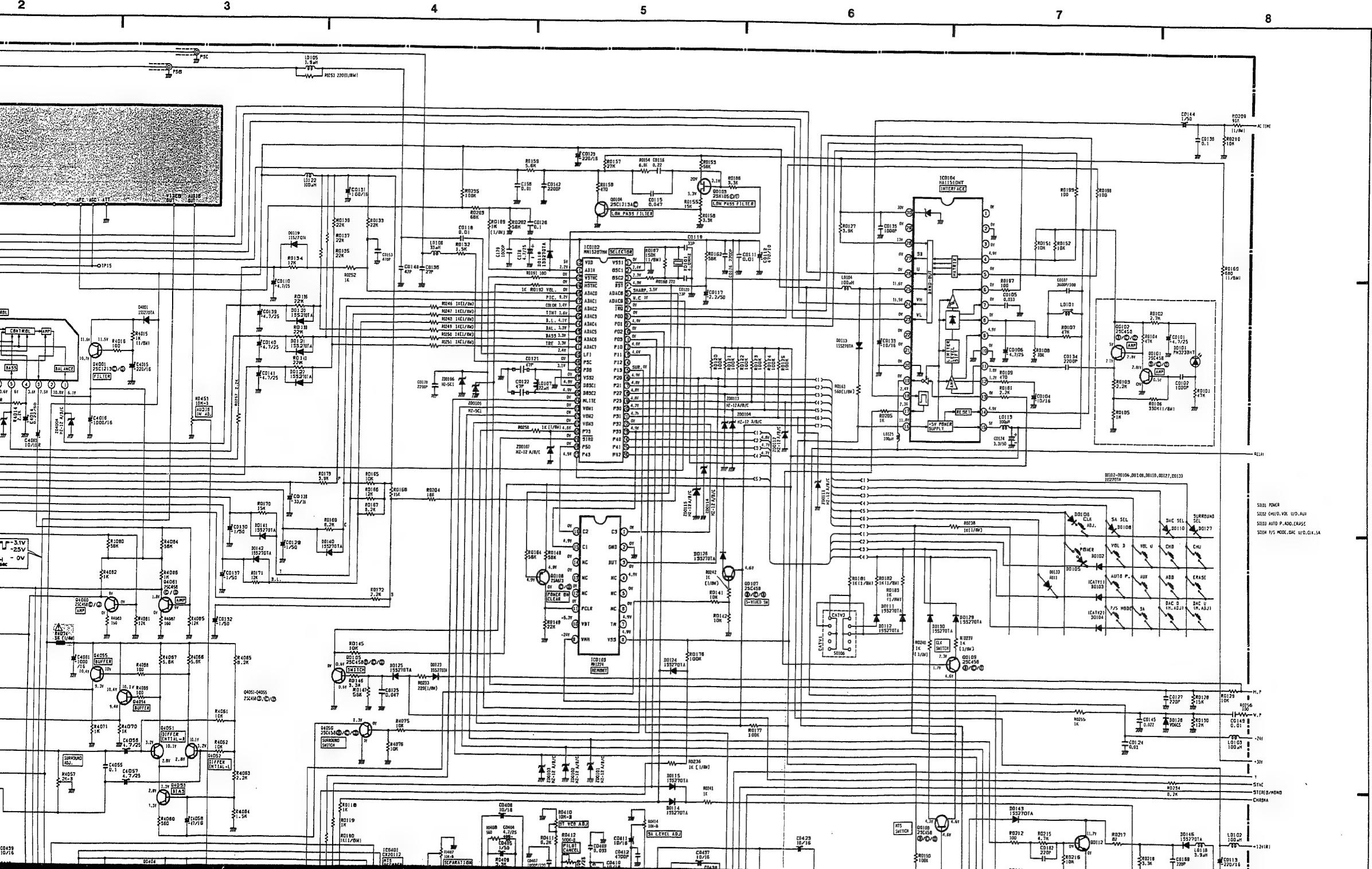
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.
- All DC voltage to be measured with a tester (100kΩ/V).
- Voltage taken on a complex color bar signal including a standard color bar signal.

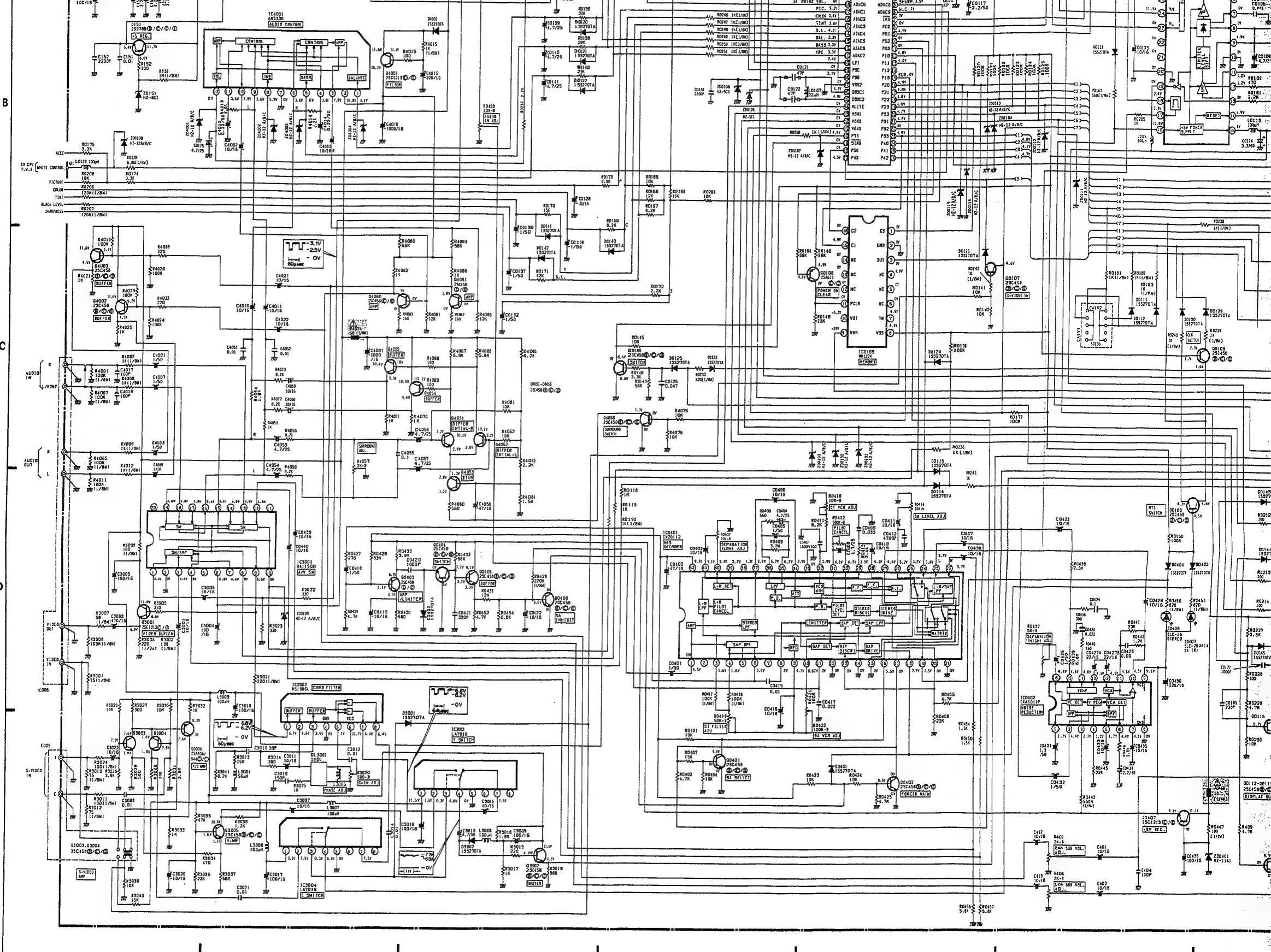


BASIC CIRCUIT DIAGRAM



BASIC CIRCUIT DIAGRAM





1

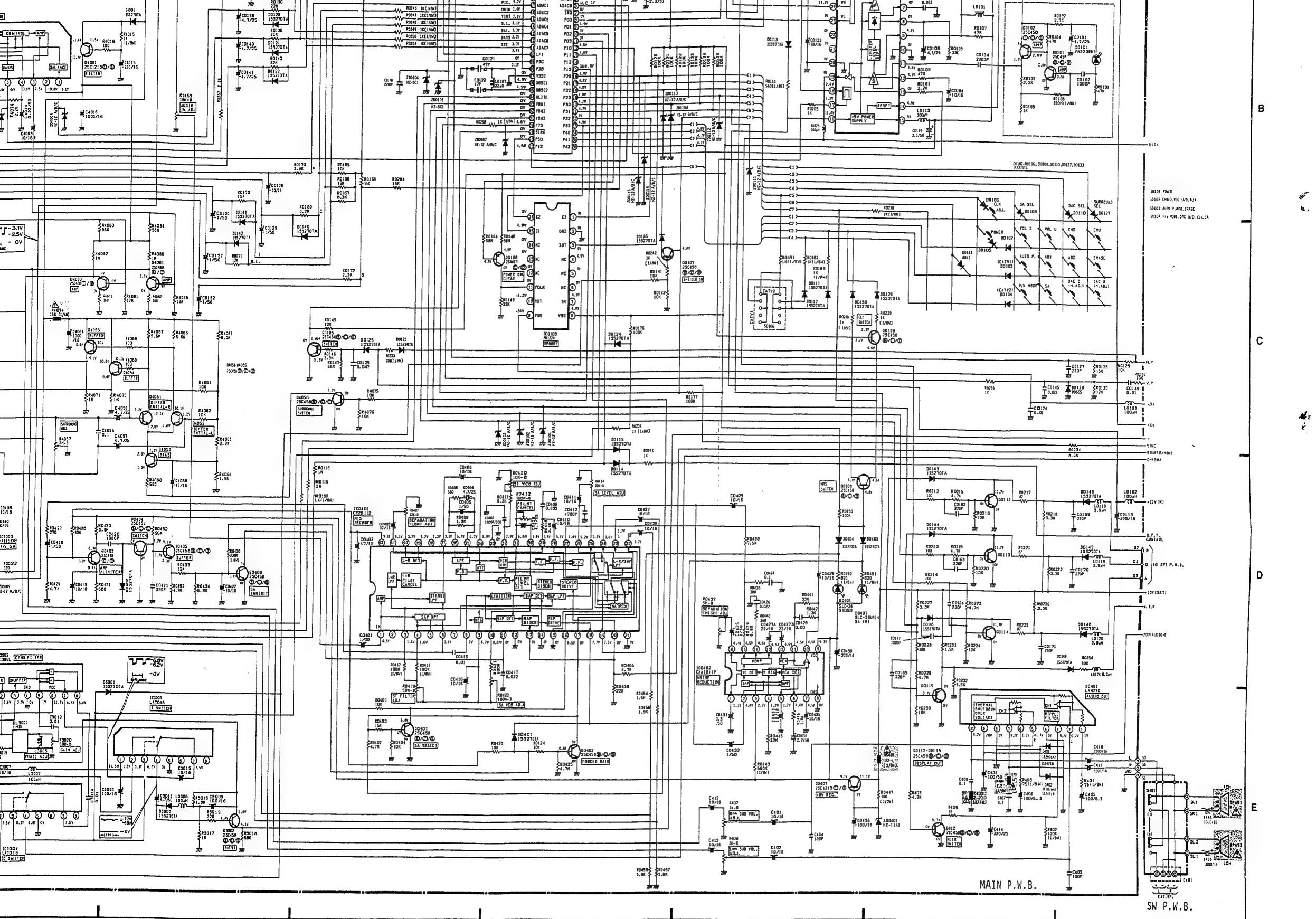
2

3

4

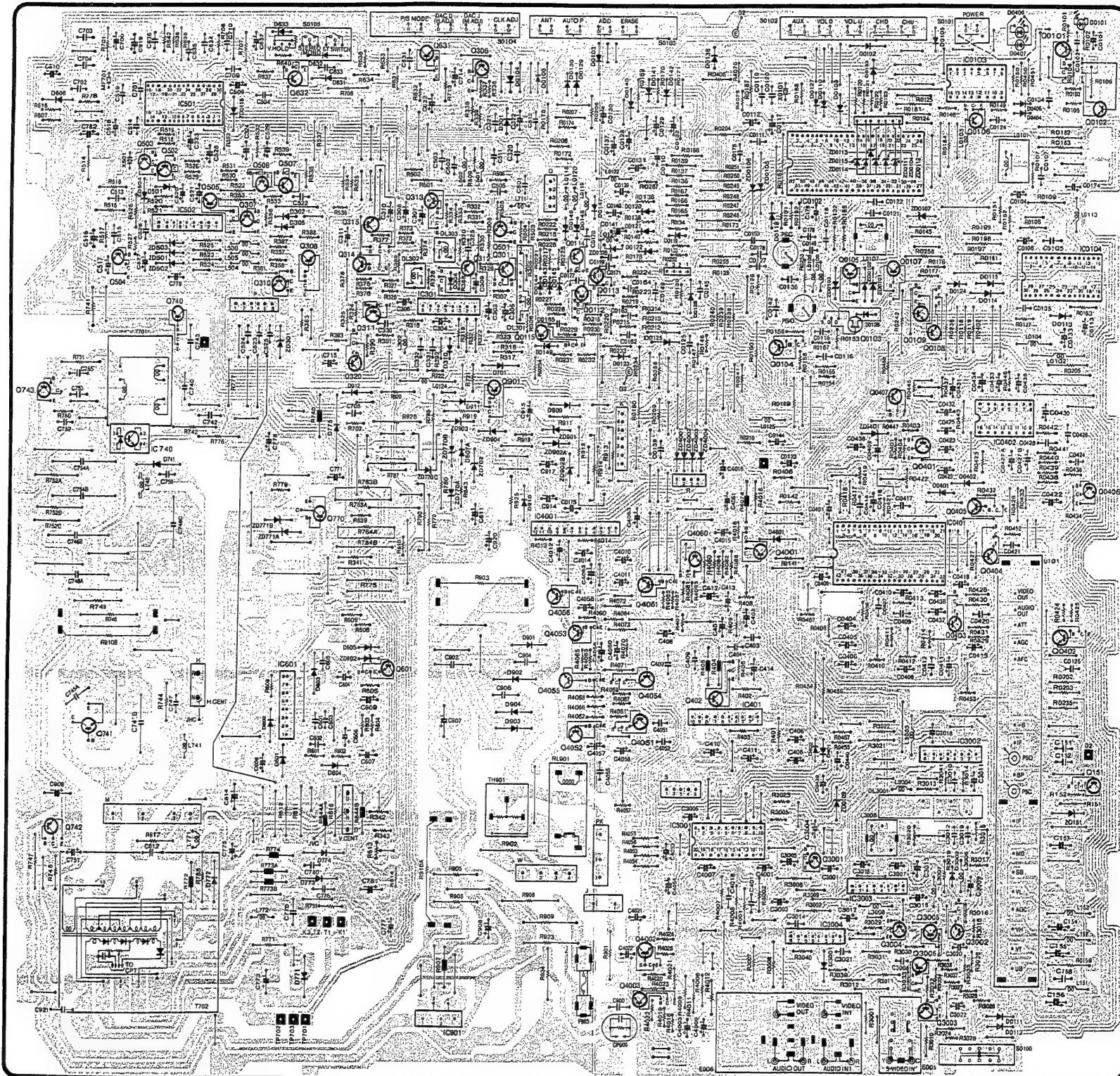
5

6

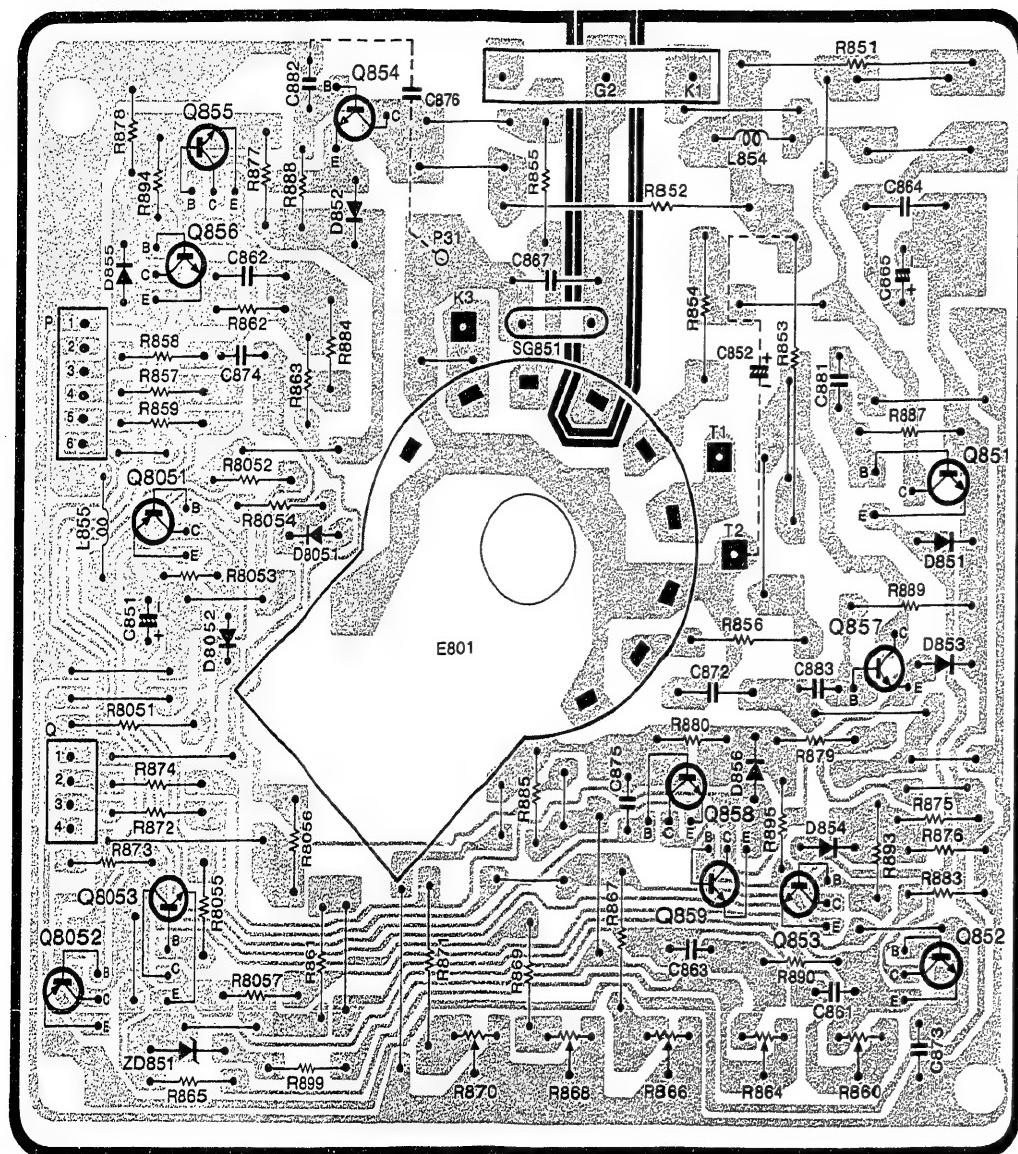


PRINTED WIRING BOARD

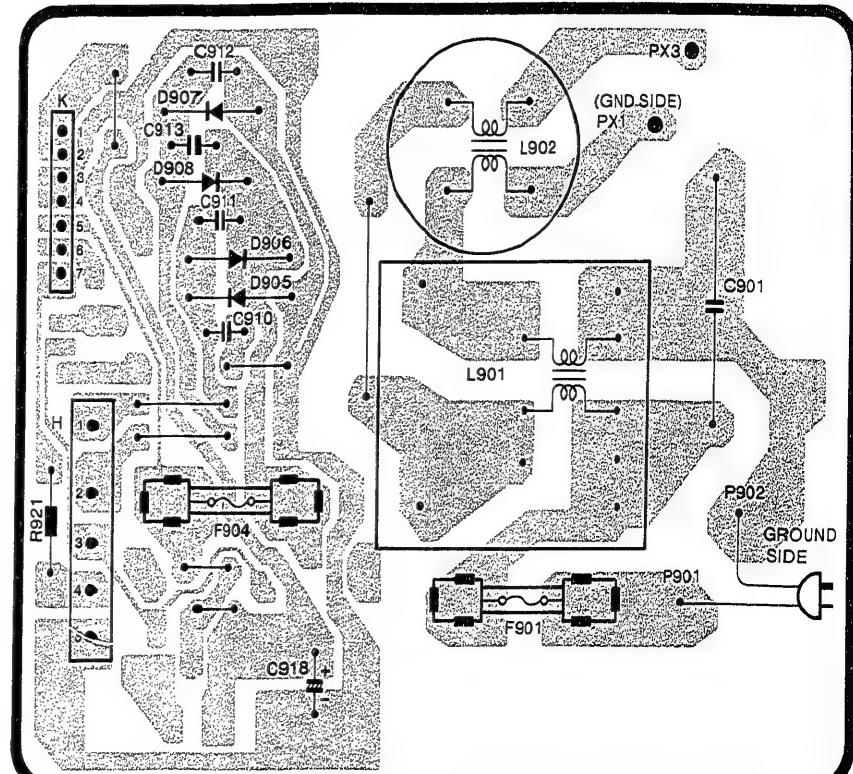
MAIN P.W.B.



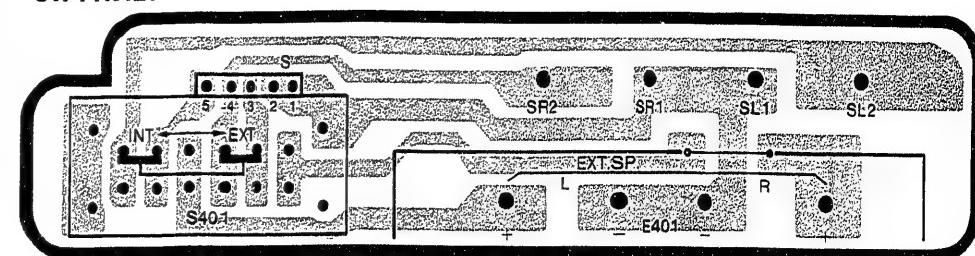
CPT P.W.B.



FILTER P.W.B.

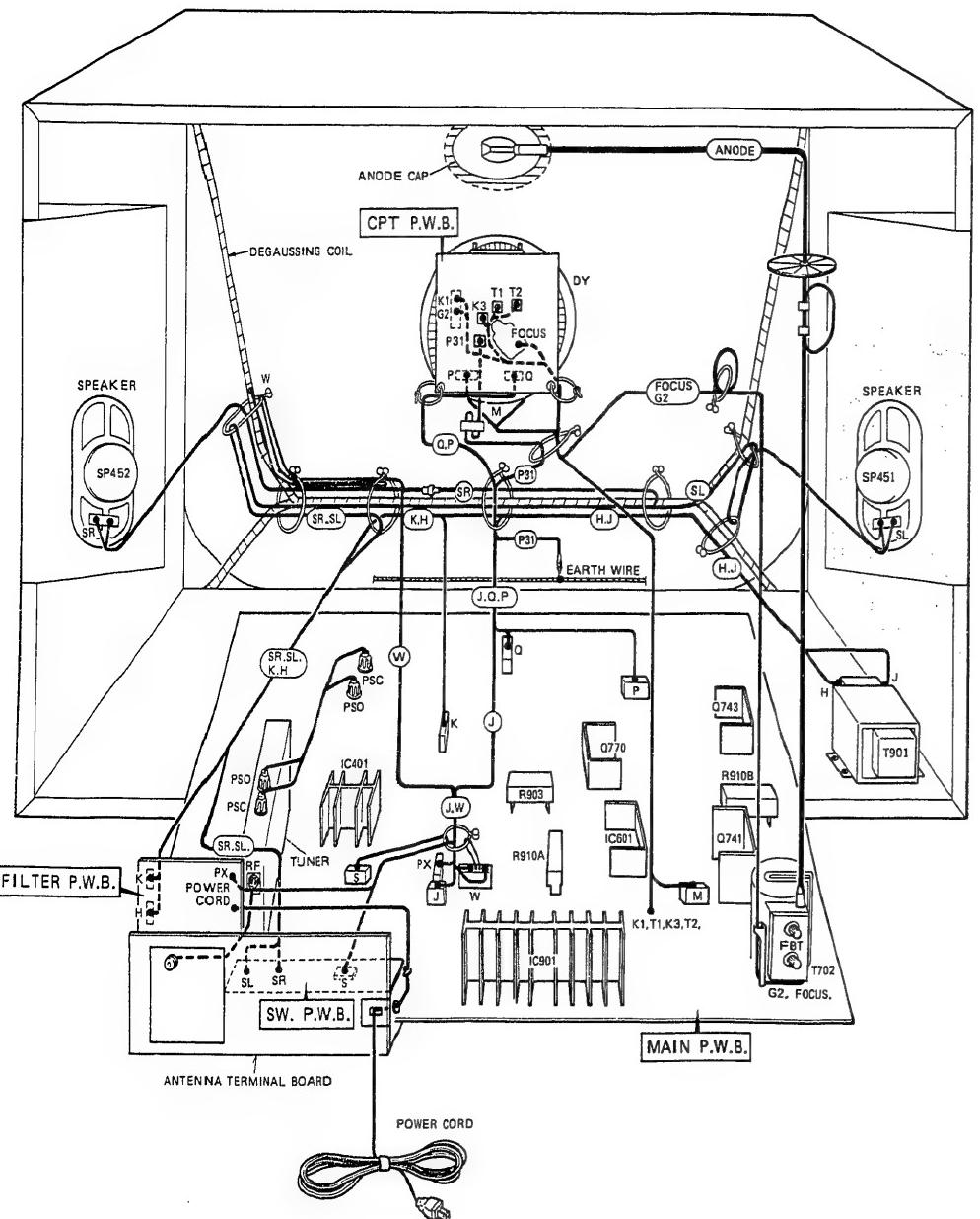


SW P.W.B.



CT7970B/K

WIRING DIAGRAM



REPLACEMENT PARTS LIST

PRODUCT SAFETY NOTE: Components marked with a Δ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS: Capacitors	CD: Ceramic disk, PF: Polyester film, EL: Electrolytic, PP: Polypropylene,
Resistors.....	PR: Paper, TA: Tantalum, TM: Trimmer
CF: Carbon film, CC: Carbon composition, MF: Metal oxide film,	
VR: Variable resistor, WV: Wire wound, FR: Fuse resistor, MG: Metal glazed	
Semiconductor	TR: Transistor, DI: Diode, ZD: Zener diode
VA: Varistor, TH: Thermistor, IC: IC	

SYMBOL NO.	PARTS NO.	DESCRIPTION			SYMBOL NO.	PARTS NO.	DESCRIPTION		
CAPACITORS;									
C0101	0800009	EL	4.7MF	25V	C0162	02486921	CD	220PF	$\pm 5\%$ 50V
C0102	02441395	CD	1000PF	$\pm 10\%$ 50V	C0163	02486921	CD	220PF	$\pm 5\%$ 50V
C0104	0800015	EL	10MF	16V	C0164	02486921	CD	220PF	$\pm 5\%$ 50V
C0105	0274769	PF	0.033MF	$\pm 10\%$ 50V	C0165	02486921	CD	220PF	$\pm 10\%$ 50V
C0106	0800009	EL	4.7MF	25V	C0169	0244230	CD	220PF	$\pm 10\%$ 50V
C0107	0299014	PP	3600PF	$\pm 2\%$ 100V	C0170	0244230	CD	220PF	$\pm 10\%$ 50V
C0110	0800009	EL	4.7MF	25V	C0171	0244230	CD	220PF	$\pm 10\%$ 50V
C0111	0274763	PF	0.01MF	$\pm 10\%$ 50V	C0174	0800007	EL	3.3MF	50V
C0112	0800073	EL	470MF	10V	C0175	0800009	EL	4.7MF	25V
C0113	0800058	EL	220MF	16V	C0176	02441051	CD	2200PF	$\pm 10\%$ 50V
C0115	02747715	PF	0.047MF	$\pm 10\%$ 50V	C0177	02441395	CD	1000PF	$\pm 10\%$ 50V
C0116	0276345	PF	0.22MF	$\pm 10\%$ 50V	C0178	0244105	CD	220PF	$\pm 10\%$ 50V
C0117	0800005	EL	2.2MF	50V	C0401	0800003	EL	1MF	50V
C0118	0274763	PF	0.01MF	$\pm 10\%$ 50V	C0402	0800041	EL	47MF	16V
C0119	02464521	CD	33PF	$\pm 5\%$ 50V	C0403	0800015	EL	10MF	16V
C0120	02464521	CD	33PF	$\pm 5\%$ 50V	C0404	0800009	EL	4.7MF	25V
C0121	02464561	CD	47PF	$\pm 5\%$ 50V	C0405	0800003	EL	1MF	50V
C0122	02464561	CD	47PF	$\pm 5\%$ 50V	C0406	0800015	EL	10MF	16V
C0123	0800058	EL	220MF	16V	C0407	0299007	PP	1800PF	$\pm 2\%$ 100V
C0124	02441711	CD	0.01MF	+80% -20% 50V	C0408	0800009	EL	4.7MF	25V
C0125	02747715	PF	0.047MF	$\pm 10\%$ 50V	C0409	0274769	PF	0.033MF	$\pm 10\%$ 50V
C0126	02747755	PF	0.1MF	$\pm 10\%$ 50V	C0410	0800015	EL	10MF	16V
C0127	02486921	CD	220PF	$\pm 5\%$ 50V	C0411	0800015	EL	10MF	16V
C0128	0800032	EL	33MF	16V	C0412	0244105	CD	4700PF	$\pm 10\%$ 50V
C0129	0800003	EL	1MF	50V	C0415	0274763	PF	0.01MF	$\pm 10\%$ 50V
C0130	0800003	EL	1MF	50V	C0416	0800015	EL	10MF	16V
C0131	0800049	EL	100MF	16V	C0417	02747675	PF	0.022MF	$\pm 10\%$ 50V
C0132	0800003	EL	1MF	50V	C0418	0800003	EL	1MF	50V
C0133	0800015	EL	10MF	16V	C0419	0800015	EL	10MF	16V
C0134	02441051	CD	2200PF	$\pm 10\%$ 50V	C0420	02441395	CD	1000PF	$\pm 10\%$ 50V
C0135	02441395	CD	1000PF	$\pm 10\%$ 50V	C0421	02486961	CD	330PF	$\pm 5\%$ 50V
C0136	02464501	CD	27PF	$\pm 5\%$ 50V	C0422	0800015	EL	10MF	16V
C0137	0800003	EL	1MF	50V	C0423	0800015	EL	10MF	16V
C0138	02747755	PF	0.1MF	$\pm 10\%$ 50V	C0424	0274675	PF	0.1MF	$\pm 5\%$ 50V
C0139	0800009	EL	4.7MF	25V	C0425	0800003	EL	1MF	50V
C0140	0800009	EL	4.7MF	25V	C0426	02746671	PF	0.022MF	$\pm 5\%$ 50V
C0141	0800009	EL	4.7MF	25V	C0427A	0800023	EL	22MF	16V
C0142	02441051	CD	2200PF	$\pm 10\%$ 50V	C0428	0800023	EL	22MF	16V
C0144	0800003	EL	1MF	50V	C0429	0800015	EL	10MF	16V
C0145	0274767	PF	0.022MF	$\pm 10\%$ 50V	C0430	0800058	EL	220MF	16V
C0148	02464561	CD	47PF	$\pm 5\%$ 50V	C0431	0800007	EL	3.3MF	50V
C0149	0274763	PF	0.01MF	$\pm 10\%$ 50V	C0432	0800003	EL	1MF	50V
C0153	0244118	CD	470PF	$\pm 10\%$ 50V	C0433	0800015	EL	10MF	16V
					C0434	0800005	EL	2.2MF	50V

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SYMBOL NO.	PARTS NO.	DESCRIPTION			SYMBOL NO.	PARTS NO.	DESCRIPTION		
C0435	0800015	EL	10MF	16V	C331	02441031	CD	1500PF	$\pm 10\%$ 50V
C0436	0800049	EL	100MF	16V	C332	02486985	CD	560PF	$\pm 5\%$ 50V
C0437	0800015	EL	10MF	16V	C4001	0800003	EL	1MF	50V
C0438	0800015	EL	10MF	16V	C4003	0800003	EL	1MF	50V
C0439	0800015	EL	10MF	16V	C4007	0800003	EL	1MF	50V
C0440	0800015	EL	10MF	16V	C4009	0800003	EL	1MF	50V
C151	0274763	PF	0.01MF	$\pm 10\%$ 50V	C401	0800015	EL	10MF	16V
C152	02441051	CD	2200PF	$\pm 10\%$ 50V	C4010	0800015	EL	10MF	16V
C153	0800049	EL	100MF	16V	C4011	0800015	EL	10MF	16V
C154	0800005	EL	2.2MF	50V	C4012	0253942	EL	0.22MF	50V
C155	0800005	EL	2.2MF	50V	C4014	0253942	EL	0.22MF	50V
C156	0800005	EL	2.2MF	50V	C4015	0800058	EL	220MF	16V
C158	0274763	PF	0.01MF	$\pm 10\%$ 50V	C4016	0800082	EL	1000MF	16V
C178	0800009	EL	4.7MF	25V	C4017	02486845	CD	100PF	$\pm 5\%$ 50V
C179	0274751	PF	1000PF	$\pm 10\%$ 50V	C4018	02486845	CD	100PF	$\pm 5\%$ 50V
C3001	0800015	EL	10MF	16V	C402	0800015	EL	10MF	16V
C3003	0800074	EL	470MF	16V	C4021	0800015	EL	10MF	16V
C3004	0800049	EL	100MF	16V	C4022	0800015	EL	10MF	16V
C3005	0800049	EL	100MF	16V	C403	02486845	CD	100PF	$\pm 5\%$ 50V
C3006	0800015	EL	10MF	16V	C404	02486845	CD	100PF	$\pm 5\%$ 50V
C3007	0800015	EL	10MF	16V	C405	0800047	EL	100MF	6.3V
C3008	0274763	PF	0.01MF	$\pm 10\%$ 50V	C4051	0274763	PF	0.01MF	$\pm 10\%$ 50V
C3009	0800049	EL	100MF	16V	C4052	0274763	PF	0.01MF	$\pm 10\%$ 50V
C3010	02486721	CD	33PF	$\pm 5\%$ 50V	C4053	0800009	EL	4.7MF	25V
C3011	0800015	EL	10MF	16V	C4054	0800009	EL	4.7MF	25V
C3012	0274763	PF	0.01MF	$\pm 10\%$ 50V	C4055	02747755	PF	0.1MF	$\pm 10\%$ 50V
C3013	0800012	EL	4.7MF	50V	C4056	0800009	EL	4.7MF	25V
C3014	0274763	PF	0.01MF	$\pm 10\%$ 50V	C4057	0800009	EL	4.7MF	25V
C3015	0800015	EL	10MF	16V	C4058	0800041	EL	47MF	16V
C3016	0800049	EL	100MF	16V	C4059	0800015	EL	10MF	16V
C3017	0800049	EL	100MF	16V	C406	0800047	EL	100MF	6.3V
C3018	0800049	EL	100MF	16V	C4060	0800015	EL	10MF	16V
C3019	02486881	CD	150PF	$\pm 5\%$ 50V	C4061	0800082	EL	1000MF	16V
C3020	0800015	EL	10MF	16V</td					

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SYMBOL NO.	PARTS NO.	DESCRIPTION			
C512	0274763	PF 0.01MF	$\pm 10\%$	50V	
C513	02747755	PF 0.1MF	$\pm 10\%$	50V	
C514	02464481	CD 22PF	$\pm 5\%$	50V	
C515	02747655	PF 0.015MF	$\pm 10\%$	50V	
C516	0800005	EL 2.2MF		50V	
C517	0800005	EL 2.2MF		50V	
C518	0800074	EL 470MF		16V	
C519	02747755	PF 0.1MF	$\pm 10\%$	50V	
C520	0800003	EL 1MF		50V	
C521	0800003	EL 1MF		50V	
C522	02490935	CD 470PF	$\pm 5\%$	50V	
C523	02441185	CD 470PF	$\pm 10\%$	50V	
C524	02441185	CD 470PF	$\pm 10\%$	50V	
C525	02441185	CD 470PF	$\pm 10\%$	50V	
C526	0274763	PF 0.01MF	$\pm 10\%$	50V	
C527	0800049	EL 100MF		16V	
C528	0800015	EL 10MF		16V	
C529	0800003	EL 1MF		50V	
C601	02441155	CD 560PF	$\pm 10\%$	50V	
C602	02478825	CD 33PF	$\pm 10\%$	500V	
C603	0274763	PF 0.01MF	$\pm 10\%$	50V	
C604	02527491	EL 330MF		50V	
C605	0274763	PF 0.01MF	$\pm 10\%$	50V	
C606	0800007	EL 3.3MF	$\pm 10\%$	50V	
C607	0253943	EL 0.33MF		50V	
C608	0800044	EL 47MF		50V	
C609	0253942	EL 0.22MF		50V	
C610	0292716F	TA 1MF	$\pm 10\%$	20V	
C611	0800041	EL 47MF		16V	
C612	0279853F	PF 0.033MF	$\pm 10\%$	100V	
C614	0252969	EL 2200MF		25V	
C631	02747655	PF 0.015MF	$\pm 10\%$	50V	
C632	0800023	EL 22MF		16V	
C633	02441395	CD 1000PF	$\pm 10\%$	50V	
C634	02747615	PF 6800PF	$\pm 10\%$	50V	
C635	02747715	PF 0.047MF	$\pm 10\%$	50V	
C636	02441395	CD 1000PF	$\pm 10\%$	50V	
C637	0253942	EL 0.22MF		50V	
C700	0800007	EL 3.3MF		50V	
C701	02441395	CD 1000PF	$\pm 10\%$	50V	
C702	0274769	PF 0.033MF	$\pm 10\%$	50V	
C703	02747675	PF 0.022MF	$\pm 10\%$	50V	
C704	02747715	PF 0.047MF	$\pm 10\%$	50V	
C705	02441185	CD 470PF	$\pm 10\%$	50V	
C709	02441205	CD 820PF	$\pm 10\%$	50V	
C710	0244104	CD 1800PF	$\pm 10\%$	50V	
C714	0800003	EL 1MF		50V	
C715	0800003	EL 1MF		50V	
C740	0279859	PF 0.1MF	$\pm 10\%$	100V	
C742	02445095	CD 4700PF	$\pm 10\%$	500V	
C743	02445411	CD 0.01MF	$\pm 10\%$	500V	
Δ C745A	0244213	CD 1500PF	$\pm 10\%$	2KV	

SYMBOL NO.	PARTS NO.	DESCRIPTION			
Δ C745B	0299794	PP 0.01MF	$\pm 5\%$	1.6KV	
Δ C746A	02999285	PP 0.15MF	$\pm 10\%$	200V	
Δ C746B	02999285	PP 0.15MF	$\pm 10\%$	200V	
Δ C746C	0299927	PP 0.12MF	$\pm 10\%$	200V	
C747	02435071	CD 330PF	$\pm 10\%$	500V	
C750	02445015	CD 1000PF	$\pm 10\%$	500V	
C751	0800041	EL 47MF		16V	
C752	02441711	CD 0.01MF	$+80\%$ -20%	50V	
C753	02445015	CD 1000PF	$\pm 10\%$	500V	
Δ C754A	02999315	PP 0.27MF	$\pm 10\%$	200V	
Δ C754B	02999305	PP 0.22MF	$\pm 10\%$	200V	
C755	02441165	CD 180PF	$\pm 10\%$	50V	
C770	02747755	PF 0.1MF	$\pm 10\%$	50V	
C771	0800026	EL 22MF		50V	
C773	0253475	EL 47MF		250V	
Δ C775	0800055	EL 100MF		100V	
C776	0243508	CD 390PF	$\pm 10\%$	500V	
C777	0800075	EL 470MF		25V	
C778	0800074	EL 470MF		16V	
C779	0800015	EL 10MF		16V	
C780	0243508	CD 390PF	$\pm 10\%$	500V	
C781	0253934	EL 2200MF		35V	
Δ C782	0800003	EL 1MF		50V	
C851	0800049	EL 100MF		16V	
C852	0253473	EL 22MF		250V	
C861	02441365	CD 270PF	$\pm 10\%$	50V	
C862	02441365	CD 270PF	$\pm 10\%$	50V	
C863	02441365	CD 270PF	$\pm 10\%$	50V	
C864	02445411	CD 0.01MF	$\pm 10\%$	500V	
C865	0253468	EL 1MF		250V	
C867	02442155	CD 2200PF	$\pm 10\%$	2KV	
C872	02441411	CD 0.01MF	$\pm 10\%$	50V	
C873	02486681	CD 22PF	$\pm 5\%$	50V	
C874	02486681	CD 22PF	$\pm 5\%$	50V	
C875	02486681	CD 22PF	$\pm 5\%$	50V	
C876	0244541	CD 0.01MF	$\pm 10\%$	500V	
C881	02441051	CD 2200PF	$\pm 10\%$	50V	
C882	02441051	CD 2200PF	$\pm 10\%$	50V	
C883	02441051	CD 2200PF	$\pm 10\%$	50V	
Δ C900	0249389	CD 220PF	$\pm 10\%$		
Δ C901	02797185	PF 0.1MF	$\pm 10\%$	125V	
C902	02445411	CD 0.01MF	$\pm 10\%$	500V	
C904	02491455	CD 4700PF	$+100\%$	125V	
C906	02491455	CD 470PF	$+100\%$	125V	
C907	02599771	EL 820MF		200V	
C908	0252779	EL 33MF		160V	
C909	02585895	EL 100MF		160V	
C910	02441095	CD 4700PF	$\pm 10\%$	50V	
C911	02441095	CD 4700PF	$\pm 10\%$	50V	
C912	02441095	CD 4700PF	$\pm 10\%$	50V	
C913	02441095	CD 4700PF	$\pm 10\%$	50V	
C914	0800075	EL 470MF		25V	

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SYMBOL NO.	PARTS NO.	DESCRIPTION			
C915	0800037	EL 33MF		100V	
C917	0800082	EL 1000MF		16V	
C918	0258603	EL 3300MF		35V	
C919	0800049	EL 100MF		16V	
C920	0800062	EL 220MF		50V	
Δ C921	02491455	CD 4700PF	$+100\%$	125V	
RESISTORS;					
R0101	0700063	CF 47K OHM	$\pm 5\%$	1/16W	
R0102	0700046	CF 2.7K OHM	$\pm 5\%$	1/16W	
R0103	0700045	CF 2.2K OHM	$\pm 5\%$	1/16W	
R0104	0700063	CF 47K OHM	$\pm 5\%$	1/16W	
R0105	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R0106	0100125	CF 330K OHM	$\pm 5\%$	1/8W	
R0107	0700063	CF 47K OHM	$\pm 5\%$	1/16W	
R0108	0700061	CF 33K OHM	$\pm 5\%$	1/16W	
R0109	0700036	CF 470 OHM	$\pm 5\%$	1/16W	
R0110	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R0111	0700048	CF 1K OHM	$\pm 5\%$	1/16W	
R0112	0700047	CF 3.3K OHM	$\pm 5\%$	1/16W	
R0113	0700041	CF 100K OHM	$\pm 5\%$	1/16W	
R0114	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0115	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0116	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0117	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0118	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0119	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0120	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0121	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0122	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0123	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0124	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0125	0700067	CF 100K OHM	$\pm 5\%$	1/	

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SYMBOL NO.	PARTS NO.	DESCRIPTION			
R0219	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W	
R0220	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R0221	0700026	CF 82 OHM	$\pm 5\%$	1/16W	
R0222	0700047	CF 3.3K OHM	$\pm 5\%$	1/16W	
R0223	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W	
R0224	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R0225	0700026	CF 82 OHM	$\pm 5\%$	1/16W	
R0226	0700047	CF 3.3K OHM	$\pm 5\%$	1/16W	
R0227	0700047	CF 3.3K OHM	$\pm 5\%$	1/16W	
R0228	0700027	CF 100 OHM	$\pm 5\%$	1/16W	
R0229	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W	
R0230	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R0231	0700043	CF 1.5K OHM	$\pm 5\%$	1/16W	
R0232	0700051	CF 5.6K OHM	$\pm 5\%$	1/16W	
R0233	01000495	CF 220 OHM	$\pm 5\%$	1/8W	
R0234	0700053	CF 8.2K OHM	$\pm 5\%$	1/16W	
R0235	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0236	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0238	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0239	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0240	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0241	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R0242	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0246	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0247	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0248	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0249	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0250	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0251	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0252	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R0253	01000495	CF 220 OHM	$\pm 5\%$	1/8W	
R0254	0700027	CF 100 OHM	$\pm 5\%$	1/16W	
R0255	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R0256	0700027	CF 100 OHM	$\pm 5\%$	1/16W	
R0257	0700045	CF 2.2K OHM	$\pm 5\%$	1/16W	
R0258	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R0401	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R0402	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W	
R0403	0700056	CF 15K OHM	$\pm 5\%$	1/16W	
R0404	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R0405	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W	
R0406	0700058	CF 22K OHM	$\pm 5\%$	1/16W	
R0407	01500385	VR 10K OHM-B RS-8			
R0408	0700037	CF 560 OHM	$\pm 5\%$	1/16W	
R0409	0700047	CF 3.3K OHM	$\pm 5\%$	1/16W	
R0410	0150024	VR 10K OHM-B R-08			
R0411	0700053	CF 8.2K OHM	$\pm 5\%$	1/16W	
R0412	0150031	VR 500K OHM-B			
R0413	01870741	CF 2.4K OHM	$\pm 5\%$	1/16W	
R0414	01500385	VR 10K OHM-B RS-8			
R0417	0119655	MF 100K OHM		1/8W	
R0418	0119655	MF 100K OHM		1/8W	

SYMBOL NO.	PARTS NO.	DESCRIPTION			
R0419	0150027	VR 50K OHM-B R-08			
R0421	0700067	CF 100K OHM	$\pm 5\%$	1/16W	
R0422	01500415	VR 100K OHM-B RS-8			
R0423	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R0424	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R0425	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W	
R0426	01001215	CF 220K OHM	$\pm 5\%$	1/8W	
R0427	0700033	CF 270 OHM	$\pm 5\%$	1/16W	
R0428	0700061	CF 33K OHM	$\pm 5\%$	1/16W	
R0429	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W	
R0430	0700048	CF 3.9K OHM	$\pm 5\%$	1/16W	
R0431	0700038	CF 680 OHM	$\pm 5\%$	1/16W	
R0432	0700064	CF 56K OHM	$\pm 5\%$	1/16W	
R0433	0700055	CF 12K OHM	$\pm 1\%$	1/16W	
R0434	0700052	CF 6.8K OHM	$\pm 5\%$	1/16W	
R0436	01870521	CF 300 OHM	$\pm 5\%$	1/16W	
R0437	01500375	VR 5K OHM-B RS-8			
R0438	01870865	CF 7.5K OHM	$\pm 5\%$	1/16W	
R0439	0700052	CF 6.8K OHM	$\pm 5\%$	1/16W	
R0440	0187054	CF 360 OHM	$\pm 5\%$	1/16W	
R0441	0700061	CF 33K OHM	$\pm 5\%$	1/16W	
R0442	0700042	CF 1.2K OHM	$\pm 5\%$	1/16W	
R0443	0179619	MG 560K OHM	$\pm 1\%$	1/8W	
R0445	0700058	CF 22K OHM	$\pm 5\%$	1/16W	
R0446	0700044	CF 1.8K OHM	$\pm 5\%$	1/16W	
R0447	01137255	CF 100 OHM	$\pm 5\%$	1/2W	
R0450	01000635	CF 820 OHM	$\pm 5\%$	1/8W	
R0451	01000635	CF 820 OHM	$\pm 5\%$	1/8W	
R0452	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W	
R0453	01500385	VR 10K OHM-B RS-8			
R0454	0700043	CF 1.5K OHM	$\pm 5\%$	1/16W	
R0455	0700051	CF 5.6K OHM	$\pm 5\%$	1/16W	
R0456	0700043	CF 1.5K OHM	$\pm 5\%$	1/16W	
R0457	0700051	CF 5.6K OHM	$\pm 5\%$	1/16W	
R0458	01195145	FR 10 OHM	$\pm 5\%$	1/4W	
R151	01000655	CF 1K OHM	$\pm 5\%$	1/8W	
R152	0700027	CF 100 OHM	$\pm 5\%$	1/16W	
R3001	01000385	CF 75 OHM	$\pm 5\%$	1/8W	
R3002	01000415	CF 100 OHM	$\pm 5\%$	1/8W	
R3005	0700034	CF 330 OHM	$\pm 5\%$	1/16W	
R3006	01137335	CF 220 OHM	$\pm 5\%$	1/2W	
R3007	01000375	CF 68 OHM	$\pm 5\%$	1/8W	
R3008	0100113	CF 100K OHM	$\pm 5\%$	1/8W	
R3009	01000415	CF 100 OHM	$\pm 5\%$	1/8W	
R3010	01000385	CF 75 OHM	$\pm 5\%$	1/8W	
R3011	01000415	CF 100 OHM	$\pm 5\%$	1/8W	
R3012	01000385	CF 75 OHM	$\pm 5\%$	1/8W	
R3013	0700029	CF 150 OHM	$\pm 5\%$	1/16W	
R3014	0700035	CF 390 OHM	$\pm 5\%$	1/16W	
R3015	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R3016	0700044	CF 1.8K OHM	$\pm 5\%$	1/16W	
R3017	0700041	CF 1K OHM	$\pm 5\%$	1/16W	

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SYMBOL NO.	PARTS NO.	DESCRIPTION			
R3018	0700037	CF 560 OHM	$\pm 5\%$	1/16W	
R3019	0700032	CF 220 OHM	$\pm 5\%$	1/16W	
R3020	01500345	VR 500 OHM-B RS-8			
R3021	01000495	CF 220 OHM	$\pm 5\%$	1/8W	
R3022	0700034	CF 330 OHM	$\pm 5\%$	1/16W	
R3023	0700034	CF 330 OHM	$\pm 5\%$	1/16W	
R3024	01000415	CF 100 OHM	$\pm 5\%$	1/8W	
R3025	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R3026	0700048	CF 3.9K OHM	$\pm 5\%$	1/16W	
R3027	01870521	CF 300 OHM	$\pm 5\%$	1/16W	
R3028	0700037	CF 560 OHM	$\pm 5\%$	1/16W	
R3029	01870521	CF 300 OHM	$\pm 5\%$	1/16W	
R3030	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R3031	0700048	CF 3.9K OHM	$\pm 5\%$	1/16W	
R3032	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R3033	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R3034	0700036	CF 470 OHM	$\pm 5\%$	1/16W	
R3035	0700063	CF 47K OHM	$\pm 5\%$	1/16W	
R3036	0700058	CF 22K OHM	$\pm 5\%$	1/16W	
R3037	0700037	CF 560 OHM	$\pm 5\%$	1/16W	
R3038	0700042	CF 1.2K OHM	$\pm 5\%$	1/16W	
R3039	0700054	CF 10K OHM	$\pm 5\%$	1/16W	
R3040	0700056	CF 15K OHM	$\pm 5\%$	1/16W	
R3041	0700053	CF 8.2K OHM	$\pm 5\%$	1/16W	
R305	0700041	CF 1K OHM	$\pm 5\%$	1/16W	
R306	0700041				

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SYMBOL NO.	PARTS NO.	DESCRIPTION		
R4056	0700053	CF 8.2K OHM	$\pm 5\%$	1/16W
R4057	01500365	VR 2K OHM-B RS-8		
R406	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R4060	0700037	CF 560 OHM	$\pm 5\%$	1/16W
R4061	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R4062	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R4063	0700045	CF 2.2K OHM	$\pm 5\%$	1/16W
R4064	0700043	CF 1.5K OHM	$\pm 5\%$	1/16W
R4065	0700053	CF 8.2K OHM	$\pm 5\%$	1/16W
R4066	0700051	CF 5.6K OHM	$\pm 5\%$	1/16W
R4067	0700051	CF 5.6K OHM	$\pm 5\%$	1/16W
R4068	0700027	CF 100 OHM	$\pm 5\%$	1/16W
R4069	0700027	CF 100 OHM	$\pm 5\%$	1/16W
R407	0150036	VR 2K OHM-B RS-8		
R4070	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R4071	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R4072	0700053	CF 8.2K OHM	$\pm 5\%$	1/16W
R4073	0700053	CF 8.2K OHM	$\pm 5\%$	1/16W
Δ R4074	01195085	FR 56 OHM	$\pm 5\%$	1/4W
R4075	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R4076	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R408	0150036	VR 2K OHM-B RS-8		
R4080	0700064	CF 56K OHM	$\pm 5\%$	1/16W
R4081	0700055	CF 12K OHM	$\pm 5\%$	1/16W
R4082	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R4083	01870521	CF 300 OHM	$\pm 5\%$	1/16W
R4084	0700064	CF 56K OHM	$\pm 5\%$	1/16W
R4085	0700055	CF 12K OHM	$\pm 5\%$	1/16W
R4086	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R4087	01870521	CF 300 OHM	$\pm 5\%$	1/16W
R409	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W
R501	0700033	CF 270 OHM	$\pm 5\%$	1/16W
R502	01870385	CF 75 OHM	$\pm 5\%$	1/16W
P503	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R504	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R505	0700049	CF 4.7K OHM	$\pm 5\%$	1/16W
R506	0700034	CF 330 OHM	$\pm 5\%$	1/16W
R509	0700037	CF 560 OHM	$\pm 5\%$	1/16W
R514	01001295	CF 470K OHM	$\pm 5\%$	1/8W
R515	01001275	CF 390K OHM	$\pm 5\%$	1/8W
R516	01001311	CF 560K OHM	$\pm 5\%$	1/8W
R517	0700042	CF 1.2K OHM	$\pm 5\%$	1/16W
R518	0700032	CF 220 OHM	$\pm 5\%$	1/16W
R519	0700032	CF 220 OHM	$\pm 5\%$	1/16W
R520	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R521	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R522	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R523	01000535	CF 330 OHM	$\pm 5\%$	1/8W
R524	01000535	CF 330 OHM	$\pm 5\%$	1/8W
R525	01000535	CF 330 OHM	$\pm 5\%$	1/8W
R526	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R527	0700027	CF 100 OHM	$\pm 5\%$	1/16W

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SYMBOL NO.	PARTS NO.	DESCRIPTION		
R528	0700051	CF 5.6K OHM	$\pm 5\%$	1/16W
R529	0700033	CF 270 OHM	$\pm 5\%$	1/16W
R530	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R531	0700064	CF 56K OHM	$\pm 5\%$	1/16W
R532	0700045	CF 2.2K OHM	$\pm 5\%$	1/16W
R533	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R534	0700022	CF 39 OHM	$\pm 5\%$	1/16W
R535	01870401	CF 91 OHM	$\pm 5\%$	1/16W
R536	0700019	CF 27 OHM	$\pm 5\%$	1/16W
R537	0700067	CF 100K OHM	$\pm 5\%$	1/16W
R538	0700056	CF 15K OHM	$\pm 5\%$	1/16W
R539	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R601	0700048	CF 3.9K OHM	$\pm 5\%$	1/16W
R602	0700058	CF 22K OHM	$\pm 5\%$	1/16W
R603	0700055	CF 12K OHM	$\pm 5\%$	1/16W
R604	0700058	CF 22K OHM	$\pm 5\%$	1/16W
R605	0700043	CF 1.5K OHM	$\pm 5\%$	1/16W
R606	0700047	CF 3.3K OHM	$\pm 5\%$	1/16W
R607	0700057	CF 18K OHM	$\pm 5\%$	1/16W
R608	0700027	CF 100 OHM	$\pm 5\%$	1/16W
R609	0700031	CF 180 OHM	$\pm 5\%$	1/16W
R610	0700046	CF 2.7K OHM	$\pm 5\%$	1/16W
R611	0113686	CF 2.7 OHM	$\pm 5\%$	1/2W
R612	01136885	CF 3.3 OHM	$\pm 5\%$	1/2W
R613	0150280	VR 200 OHM-B		
R614	0700029	CF 150 OHM	$\pm 5\%$	1/16W
R615	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R616	01137461	CF 680 OHM	$\pm 5\%$	1/2W
R617	01137395	CF 390 OHM	$\pm 5\%$	1/2W
R631	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R632	01871125	CF 91K OHM	$\pm 5\%$	1/16W
R633	0700052	CF 6.8K OHM	$\pm 5\%$	1/16W
R634	0700053	CF 8.2K OHM	$\pm 5\%$	1/16W
R635	01001215	CF 220K OHM	$\pm 5\%$	1/8W
R636	0700021	CF 33 OHM	$\pm 5\%$	1/16W
R637	0700062	CF 39K OHM	$\pm 5\%$	1/16W
R638	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R639	0700041	CF 1K OHM	$\pm 5\%$	1/16W
R640	01871105	CF 75K OHM	$\pm 5\%$	1/16W
R642	0700027	CF 100 OHM	$\pm 5\%$	1/16W
R643	01000495	CF 220 OHM	$\pm 5\%$	1/8W
Δ R644A	0119838	FR 0.5 OHM	$\pm 5\%$	1/4W
Δ R644B	0119838	FR 0.5 OHM	$\pm 5\%$	1/4W
R701	0700043	CF 1.5K OHM	$\pm 5\%$	1/16W
R702	0700046	CF 2.7K OHM	$\pm 5\%$	1/16W
R706	0700062	CF 39K OHM	$\pm 5\%$	1/16W
R707	0187084	CF 6.2K OHM	$\pm 5\%$	1/16W
R708	0700034	CF 330 OHM	$\pm 5\%$	1/16W
R713	01001215	CF 220K OHM	$\pm 5\%$	1/8W
R721	0700054	CF 10K OHM	$\pm 5\%$	1/16W
R722	0700054	CF 10K OHM	$\pm 5\%$	1/16W
Δ R740	01195085	FR 56 OHM	$\pm 5\%$	1/4W
R741	0700023	CF 47 OHM	$\pm 5\%$	1/16W
R742	0113754	CF 1.5K OHM	$\pm 5\%$	1/2W
R744	01141635	CF 1.2K OHM	$\pm 5\%$	1/4W
R746	0110229	MF 220 OHM	$\pm 5\%$	2W
Δ R747	0119695	MF 0.47 OHM	$\pm 5\%$	1W
R748	0700044	CF 1.8K OHM	$\pm 5\%$	1/16W
R749	01101695	MF 10K OHM	$\pm 5\%$	1W
R750	0700046	CF 2.7K OHM	$\pm 5\%$	1/16W
R751	0100003	CF 2.7 OHM	$\pm 5\%$	1/8W
R752A	0113692	CF 4.7 OHM	$\pm 5\%$	1/2W
R752B	0113692	CF 4.7 OHM	$\pm 5\%$	1/2W
R752C	01136911	CF 4.3 OHM	$\pm 5\%$	1/2W
Δ R770	01137891	CF 39K OHM	$\pm 5\%$	1/2W
Δ R771	01195051	FR 2.2 OHM	$\pm 5\%$	1/4W
Δ R772	0119838	FR 0.5 OHM	$\pm 5\%$	1/4W
Δ R773A	01195121	FR 1 OHM	$\pm 5\%$	1/4W
Δ R773B	01195121	FR 1 OHM	$\pm 5\%$	1/4W
Δ R774	0119838	FR 0.5 OHM	$\pm 5\%$	1/4W
R775	01137315	CF 180 OHM	$\pm 5\%$	1/2W
R776	01000675	CF 1.2K OHM	$\pm 5\%$	1/8W
Δ R777	0700031	CF 180 OHM	$\pm 5\%$	1/16W
Δ R778	0700046	CF 2.7K OHM	$\pm 5\%$	1/16W
R779	0700051	CF 5.6 OHM	$\pm 5\%$	1/16W
R780	0110129	MF 220 OHM	$\pm 5\%$	1W
R783A	0110253	MF 2.2K OHM	$\pm 5\%$	2W
R783B	01102511	MF 1.8K OHM	$\pm 5\%$	2W
R784A	0110253	MF 2.2K OHM	$\pm 5\%$	2W
R784B	01102511	MF 1.8K OHM	$\pm 5\%$	2W
R785	0110253	MF 2.2K OHM	$\pm 5\%$	2W
R787	01101471	MF 1.2K OHM	$\pm 5\%$	1W
Δ R788	01141691	CF 2.2K OHM	$\pm 5\%$	1/4W
R790	0110261	MF 4.7K OHM	$\pm 5\%$	2W
R791	01141391	CF 220 OHM	$\pm 5\%$	1/4W
R8051	01000895	CF 10K OHM	$\pm 5\%$	1/8W
R8052	01000895	CF 10K OHM	$\pm 5\%$	1/8W
R8053	01000895	CF 10K OHM	$\pm 5\%$	1/8W
R8054	01000895	CF 10K OHM	$\pm 5\%$	1/8W
R8055	01000895	CF 10K OHM	$\pm 5\%$	1/8W
R8056	0100			

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SYMBOL NO.	PARTS NO.	DESCRIPTION
ICS;		
IC0102	2380661	IC MN15287HW
IC0103	2914921	IC MN1224
IC0104	2914961	IC HA1151ONT
IC0401	2914931	IC CX20112
IC0402	2914941	IC CXA1011P
IC3001	2914951	IC HA11508
IC3002	2912961	IC M51386L
IC3003	2917611	IC LA7016
IC3004	2917611	IC LA7016
IC301	2917301	IC CX20125
IC4001	2366392	IC AN5836
IC401	2912561	IC LA4270
Δ IC501	2915192	IC LA7629
IC502	2917591	IC TA8647S
Δ IC601	2917361	IC UPC1498H
Δ IC740	2368913	IC PC817A
Δ IC901	2917802	IC STR-D3030
TRANSISTORS;		
Q0101	23205981	TR 2SC458 B/C/D
Q0102	23205981	TR 2SC458 B/C/D
Q0103	2324084	TR 2SK105 E/F
Q0104	23206631	TR 2SC1213AC
Q0105	23205981	TR 2SC458 B/C/D
Q0106	23206375	TR 2SA673 C/D
Q0107	23205981	TR 2SC458 B/C/D
Q0108	23205981	TR 2SC458 B/C/D
Q0109	23205981	TR 2SC458 B/C/D
Q0112	23205981	TR 2SC458 B/C/D
Q0113	23205981	TR 2SC458 B/C/D
Q0114	23205981	TR 2SC458 B/C/D
Q0115	23205981	TR 2SC458 B/C/D
Q0401	23205981	TR 2SC458 B/C/D
Q0402	23205981	TR 2SC458 B/C/D
Q0403	2320596	TR 2SC458 C/D
Q0404	23205981	TR 2SC458 B/C/D
Q0405	23205981	TR 2SC458 B/C/D
Q0406	2320596	TR 2SC458 C/D
Q0407	23206471	TR 2SC1213 C/D
Q0504	23206471	TR 2SC1213 C/D
Q0505	23205981	TR 2SC458 B/C/D
Q0506	23205981	TR 2SC458 B/C/D
Q0507	23205981	TR 2SC458 B/C/D
Q0601	2320596	TR 2SC458 C/D
Q631	23206375	TR 2SA673 C/D
Q632	23206375	TR 2SA673 C/D
Q740	2326216	TR 2SC3116 S/T
Δ Q741	23244121	TR 2SD1455
Q742	2321112	TR 2SA778AK-02
Q743	2322223	TR 2SC2373L
Q770	2323434	TR 2SC1983 O/Y
Q8051	23206375	TR 2SA673 C/D
Q8052	23206375	TR 2SA673 C/D
Q8053	2320591	TR 2SC458 B/C
Q851	23212215	TR 2SC1514
Q852	2320591	TR 2SC458 B/C
Q853	2320591	TR 2SC458 B/C
Q854	23212215	TR 2SC1514
Q855	2320591	TR 2SC458 B/C
Q856	2320591	TR 2SC458 B/C
Q857	23212215	TR 2SC1514
Q858	2320591	TR 2SC458 B/C
Q859	2320591	TR 2SC458 B/C
Q901	23206375	TR 2SA673 C/D

SYMBOL NO.	PARTS NO.	DESCRIPTION
ICS;		
Q308	23206375	TR 2SA673 C/D
Q310	23205981	TR 2SC458 B/C/D
Q311	23205981	TR 2SC458 B/C/D
Q312	23206375	TR 2SA673 C/D
Q313	23205981	TR 2SC458 B/C/D
Q314	23205981	TR 2SC458 B/C/D
Q315	23205981	TR 2SC458 B/C/D
Q320	23205981	TR 2SC458 B/C/D
Q4001	23206471	TR 2SC1213 C/D
Q4002	23205981	TR 2SC458 B/C/D
Q4003	23205981	TR 2SC458 B/C/D
Q4042	23205981	TR 2SC458 B/C/D
Q4053	23205981	TR 2SC458 B/C/D
Q4054	23205981	TR 2SC458 B/C/D
Q4055	23205981	TR 2SC458 B/C/D
Q4056	23205981	TR 2SC458 B/C/D
Q4060	2320596	TR 2SC458 C/D
Q4061	2320596	TR 2SC458 C/D
Q501	23205981	TR 2SC458 B/C/D
Q502	23205981	TR 2SC458 B/C/D
Q503	23205981	TR 2SC458 B/C/D
Q504	23206471	TR 2SC1213 C/D
Q505	23205981	TR 2SC458 B/C/D
Q506	23205981	TR 2SC458 B/C/D
Q507	23205981	TR 2SC458 B/C/D
Q601	2320596	TR 2SC458 C/D
Q631	23206375	TR 2SA673 C/D
Q632	23206375	TR 2SA673 C/D
Q740	2326216	TR 2SC3116 S/T
Δ Q741	23244121	TR 2SD1455
Q742	2321112	TR 2SA778AK-02
Q743	2322223	TR 2SC2373L
Q770	2323434	TR 2SC1983 O/Y
Q8051	23206375	TR 2SA673 C/D
Q8052	23206375	TR 2SA673 C/D
Q8053	2320591	TR 2SC458 B/C
Q851	23212215	TR 2SC1514
Q852	2320591	TR 2SC458 B/C
Q853	2320591	TR 2SC458 B/C
Q854	23212215	TR 2SC1514
Q855	2320591	TR 2SC458 B/C
Q856	2320591	TR 2SC458 B/C
Q857	23212215	TR 2SC1514
Q858	2320591	TR 2SC458 B/C
Q859	2320591	TR 2SC458 B/C
Q901	23206375	TR 2SA673 C/D

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SYMBOL NO.	PARTS NO.	DESCRIPTION
DIODES;		
D0101	2338171	DI PN323B-HT
D0102	23383211	DI 1SS270TA
D0103	23383211	DI 1SS270TA
D0104	23383211	DI 1SS270TA
D0105	23383211	DI 1SS270TA
D0106	23383211	DI 1SS270TA
D0108	23383211	DI 1SS270TA
D0110	23383211	DI 1SS270TA
D0111	23383211	DI 1SS270TA
D0112	23383211	DI 1SS270TA
D0113	23383211	DI 1SS270TA
D0114	23383211	DI 1SS270TA
D0115	23383211	DI 1SS270TA
D0118	23383211	DI 1SS270TA
D0119	23383211	DI 1SS270TA
D0120	23383211	DI 1SS270TA
D0121	23383211	DI 1SS270TA
D0122	23383211	DI 1SS270TA
D0123	23383211	DI 1SS270TA
D0124	23383211	DI 1SS270TA
D0125	23383211	DI 1SS270TA
D0126	23383211	DI 1SS270TA
D0127	23383211	DI 1SS270TA
D0128	23302565	DI V06CS
D0129	23383211	DI 1SS270TA
D0130	23383211	DI 1SS270TA
D0133	23383211	DI 1SS270TA
D0140	23383211	DI 1SS270TA
D0141	23383211	DI 1SS270TA
D0142	23383211	DI 1SS270TA
D0143	23383211	DI 1SS270TA
D0144	23383211	DI 1SS270TA
D0145	23383211	DI 1SS270TA
D0146	23383211	DI 1SS270TA
D0147	23383211	DI 1SS270TA
D0148	23383211	DI 1SS270TA
D0149	23383211	DI 1SS270TA
D0401	23383211	DI 1SS270TA
D0402	23383211	DI 1SS270TA
D0404	23383211	DI 1SS270TA
D0405	23383211	DI 1SS270TA
D0406	2334672	LED SLC-26
D0407	2334671	LED SLC26UR14
D3001	23383211	DI 1SS270TA
D3002	23383211	DI 1SS270TA
D301	23383211	DI 1SS270TA
D302	23383211	DI 1SS270TA
D304	23383211	DI 1SS270TA
D305	23383211	DI 1SS270TA
D310	23383211	DI 1SS270TA

SYMBOL NO.	PARTS NO.	DESCRIPTION
D4001	23383211	DI 1SS270TA
D401	23303531	DI 1S2076A/1S2471B
D402	23303531	DI 1S2076A/1S2471B
D501	23383211	DI 1SS270TA
D601	23303525	DI 1S2076A
D602	23303525	DI 1S2076A
D603	23302565	DI V06CS
D604	23383211	DI 1SS270TA
D605	23383211	DI 1SS270TA
D606	23383211	DI 1SS270TA
D607A	23383211	DI 1SS270TA
D631	23383211	DI 1SS270TA
D632	23383211	DI 1SS270TA
D633	23303531	DI 1S2076A/1S2471B
D701	23383211	DI 1SS270TA
D741	2332851	DI EH1Z
D771	2338902	DI DFM1SA4
Δ D772	2338902	DI DFM1SA4
D773	2338161	DI DFM1A2
D774	2338902	DI DFM1SA4
D775	23394911	DI AM01Z
D8051	23383211	DI 1SS270TA
D8052	23383211	DI 1SS270TA
D851	23383211	DI 1SS270TA
D852	23383211	DI 1SS270TA
D853	23383211	DI 1SS270TA
D854	23383211	DI 1SS270TA
D855	23383211	DI 1SS270TA
D856	23383211	DI 1SS270TA
Δ D901	23319911	DI R02A
Δ D902	23319911	DI R02A
Δ D903	23319911	DI R02A
Δ D904	23319911	DI R02A
Δ D905	23302565	DI V06CS
Δ D906	23302565	DI V06CS
Δ D907	23302565	DI V06CS
Δ D908	23302565	DI V06CS
D909	23394911	DI AM01Z
D910	23394911	DI AM01Z
D911</		

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SYMBOL NO.	PARTS NO.	DESCRIPTION
ZD0113	23311545	ZD HZ12(A)/(B)/(C)
ZD0114	23311545	ZD HZ12(A)/(B)/(C)
ZD0115	23311545	ZD HZ12(A)/(B)/(C)
ZD0116	23311545	ZD HZ12(A)/(B)/(C)
ZD0401	2331831	ZD HZ11A
ZD151	23318075	ZD HZ6(C)1
ZD301	23311545	ZD HZ12(A)/(B)/(C)
ZD4001	23311545	ZD HZ12(A)/(B)/(C)
ZD4002	23311545	ZD HZ12(A)/(B)/(C)
ZD4003	23311545	ZD HZ12(A)/(B)/(C)
ZD4004	23311545	ZD HZ12(A)/(B)/(C)
ZD501	23311545	ZD HZ12(A)/(B)/(C)
ZD502	23311545	ZD HZ12(A)/(B)/(C)
ZD503	23311545	ZD HZ12(A)/(B)/(C)
ZD504	2331829	ZD HZ9(C)3
ZD602	2339011	ZD HZS6A1L
ZD702	23311555	ZD HZ-12(C)
Δ ZD770A	2339251	ZD HZS36-1L
Δ ZD770B	2339251	ZD HZS36-1L
Δ ZD770C	2339011	ZD HZS6A1L
ZD771A	2331802	ZD HZ-6A2
ZD771B	23318151	ZD HZ7(B)2
ZD851	2331781	ZD HZ-4(A)1
ZD901	2339222	ZD HZS27-2L
ZD902A	2331804	ZD HZ6(B)1
ZD902B	23318075	ZD HZ6(C)1
ZD903	2334021	ZD RD2.0E
ZD904	2339142	ZD HZS12B2L
TRANSFORMERS;		
Δ TH901	2340812	POSISTOR
COILS;		
DL3001	2791101	DELAY LINE
DL301	2165582	DELAY LINE
DL302	2165241	DELAY LINE
DL303	2165241	DELAY LINE
L0101	2161992	LOW FREQUENCY COIL
L0102	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L0103	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L0104	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L0105	21229371	LA AXIAL COIL 3.9MICRO H \pm 10%
L0106	21229495	LA AXIAL COIL 33MICRO H \pm 10%
L0107	2164362	TUNING COIL
L0113	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L0118	21229371	LA AXIAL COIL 3.9MICRO H \pm 10%
L0119	21229371	LA AXIAL COIL 3.9MICRO H \pm 10%
L0120	21229371	LA AXIAL COIL 3.9MICRO H \pm 10%
L0122	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L0123	21229565	LA AXIAL COIL 100MICRO H \pm 10%

SYMBOL NO.	PARTS NO.	DESCRIPTION
L0124	21229421	LA AXIAL COIL 8.2MICRO H \pm 10%
L0125	2122956	LA AXIAL COIL 100MICRO H \pm 10%
L151	2122964	LA AXIAL COIL
L152	2122964	LA AXIAL COIL
L153	2122964	LA AXIAL COIL
L3003	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L3004	2122953	LA AXIAL COIL 56MICRO H
L3005	21411485	1H DL COIL
L3006	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L3007	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L3008	21229565	LA AXIAL COIL 100MICRO H \pm 10%
L302	21204865	FILTER COIL 4700MICRO H
L501	21229445	LA AXIAL COIL 12MICRO H
L502	21229435	LA AXIAL COIL 10MICRO H \pm 10%
L504	21229421	LA AXIAL COIL 8.2MICRO H \pm 10%
L505	21229421	LA AXIAL COIL 8.2MICRO H \pm 10%
L506	21229421	LA AXIAL COIL 8.2MICRO H \pm 10%
L711	21204825	FILTER COIL 100MICRO H \pm 10%
L741	2272781	HORIZONTAL LINEARITY COIL
L742	21204865	FILTER COIL 4700MICRO H
L771	21204825	FILTER COIL 100MICRO H \pm 10%
L772	2124191	FIELD COIL
L854	21222541	LA AXIAL COIL 120MICRO H
L855	21222535	LA AXIAL COIL 100MICRO H
Δ L901	2272292	LINE FILTER
Δ L902	2121674	LINE FILTER COIL
Δ L905	2165741	DEGAUSSING COIL
COMPOUND COMPONENTS;		
Δ CP900 MF701	2791903 2791062	CAPRISTOR CERAMIC OSC
FUSES;		
Δ F901	2721053	FUSE 5A
Δ F903	2720819	FUSE 1.5A
Δ F904	27208141	FUSE 2A
MISCELLANEOUS;		
	4517801	6 FLANGE NUT (CPT)
	3810441	DOOR-VR (OAK)
	3810442	DOOR-VR (BLACK)
	3785043	PUSH LOCK A (POWER SW)

PRODUCT SAFETY NOTE: Components marked with a Δ have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

SYMBOL NO.	PARTS NO.	DESCRIPTION
	41379755	4x16 ZA R SCREW (SW P.W.B.)
	47707721	3 NUT (MAIN P.W.B.)
	3727972	HOLDER-AC LINE CORD
	3461841	BACK COVER ASS'Y (HCPA)
	0649092	WASHER (CPT)
	3739671	CORD HOLDER
	3118847	CABINET ASS'Y (OAK) (HCPA)
	3118848	CABINET ASS'Y (BLACK) (HCPA)
Δ ANT	2687791	F-US TERMINAL
H	2661751	PLUG PIN WITH BASE
J	2661751	PLUG PIN WITH BASE
K	2663829	7P MINI-PLUG PIN
M	2665272	4P PLUG PIN WITH BASE
P	2663825	6P MINI-PLUG PIN
PX	26617525	PLUG PIN
S	26638245	CONNECTOR
V	26617525	PLUG PIN
W	26617535	PIN PLUG WITH BASE
	2983121	SOCKET WITH SWITCH
	2983132	6PS SWITCH WITH PIN JACK
	2771891	FERRITE BEADS CORE 003 (C0121)
	2771891	FERRITE BEADS CORE 003 (C0122)
	2771891	FERRITE BEADS CORE 003 (Q852,Q855,Q858)
	2771891	FERRITE BEADS CORE (Q743)
	2982471	300-75 VHF ADAPTER
	2970304	REMOTE CONTROL TRANSMITTER (CLU-350)
	2983011	4P PUSH TERMINAL
	2443082	DEFLECTION YOKE
	2771461	MAGNET
	2771461	MAGNET
	2773671	CF MAGNET
	2953102	CRT SOCKET
	2771892	FERRITE BEADS CORD 004 (Q851,Q854,Q857)
	27202215	FUSE HOLDER (F903)
	27202215	FUSE HOLDER (F901)
	27843425	CONDENSER COVER (CP900,C900)
	27202215	FUSE HOLDER (F904)
	2742553	AC CORD
	37722015	AC CORD HOLDER
	2667422	MINI CONNECTOR WITH WIRE (JHC, JVC)
	27718925	FERRITE BEADS CORE 004 (CP900)
	27718925	FERRITE BEADS CORE 004 (C921)
	2771891	FERRITE BEADS CORE 003 (D774)
	88212341	3 NUT (Q741)
	88131241	WASHER (Q741)
	27862815	MICA SHEET (Q741)
	27863015	TRS SHEET (Q741)
	27718925	FERRITE BEADS CORE 004 (Q741)
Δ V1	2358201	CPT MVA68AEC00X (HCPA)



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